



THE SKI HUT 66/67

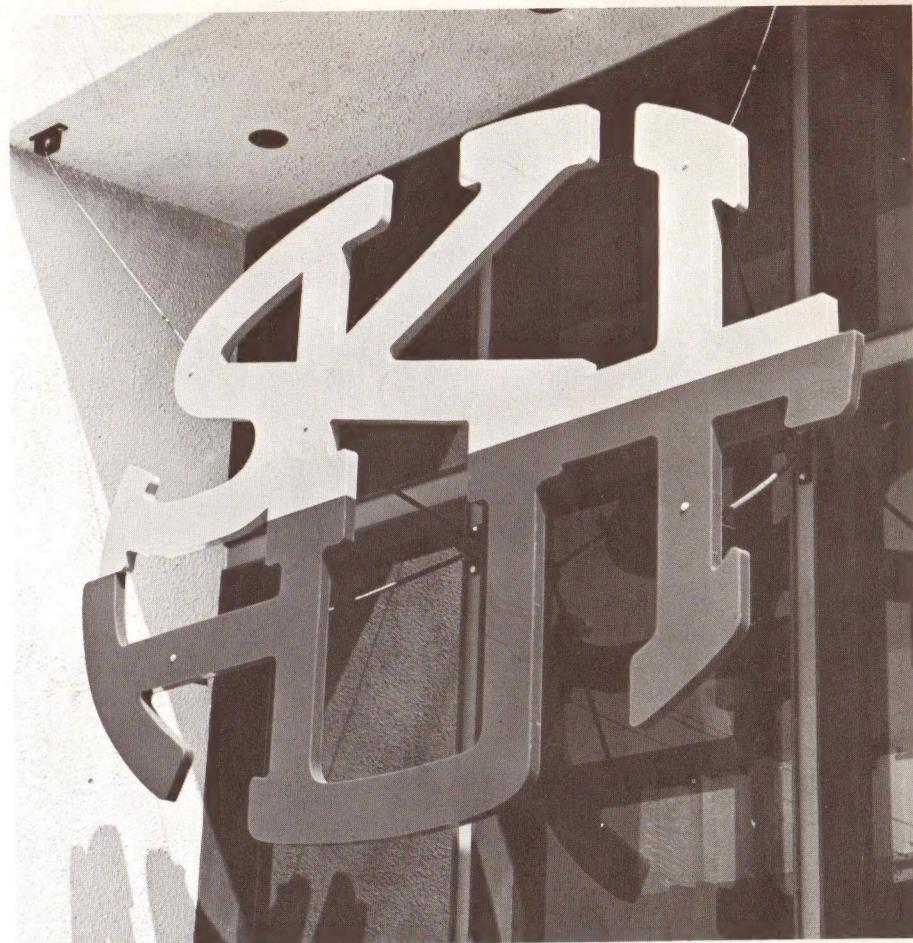


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TRAILWISE

1615 UNIVERSITY • BERKELEY, CALIF.



A NEW SEASON is marked by the introduction of color to our catalog for 1966/67. We hope this adds a lively dimension to the spectrum of Trailwise equipment, particularly for our customers who aren't able to visit us in Berkeley. We have tried throughout to give an earnest and accurate accounting of even the smallest items, and feel that color is an important part of the full description.

THE SEARCH CONTINUES at Trailwise for the best in equipment, both from our factory and from foreign and domestic sources. The past season has found our staff members in the desert, sub-arctic and High Sierra testing new products, and, incidentally, confirming that our present line is in the forefront of lightweight design. Our General Manager, Allen Steck, is leading a Sierra Club rock-climbing trip to the Dolomites of Italy this summer; while in Europe he will seek out new sources and new products from this creatively burgeoning marketplace.

BUYER'S GUIDE SECTIONS have been included in this catalog, conveying a few of the solid facts which are necessary to the wise choice of a lightweight outfit.

FIFTEEN YEARS at our present location on University Avenue in Berkeley finally just wore our old store through at the seams; accordingly, we began remodeling last Fall. Our gleaming new quarters await your inspection, should your summer travels bring you close to Berkeley.

MOUNTAINEERING

Important: be sure to specify length of ice axe when ordering.



1 2 3 4 5 6



PLYMOUTH GOLDLINE CLIMBING ROPE. A synthetic gold colored fiber woven into three strand 'hard lay' especially for mountaineering use. Retains 90 to 95% strength when wet. The $\frac{7}{16}$ " dia. is recommended for continuous climbing whereas the $\frac{3}{8}$ " dia. is satisfactory for moderate climbing or most belaying requirements on ice or snow.

$\frac{7}{16}$ " dia. x 120', Ave. test 5550 lbs., Wt. $7\frac{1}{8}$ lbs. CG712 \$22.50
 $\frac{7}{16}$ " dia. x 150', Ave. test 5550 lbs., Wt. $8\frac{3}{4}$ lbs. CG715 \$27.95
 $\frac{3}{8}$ " dia. x 120', Ave. test 4000 lbs., Wt. $4\frac{1}{8}$ lbs. CG312 \$15.50
 $\frac{3}{8}$ " dia. x 150', Ave. test 4000 lbs., Wt. $5\frac{1}{2}$ lbs. CG315 \$18.95
 $\frac{5}{8}$ " dia. in bulk, Ave. test 2950 lbs. CG516 10¢ foot
 $\frac{1}{4}$ " dia. in bulk, Ave. test 1950 lbs. CG014 6¢ foot

PLYMOUTH TYPE 707 WHITE NYLON ROPE. Reputed by some to have better abrasive resistant qualities and better handling action than Goldline. Wet strength somewhat less than Goldline but the ave. test is about equal to Goldline.

$\frac{7}{16}$ " dia. x 120', Wt. $7\frac{1}{8}$ lbs. CW712 \$22.50
 $\frac{7}{16}$ " dia. x 150', Wt. $8\frac{3}{4}$ lbs. CW715 \$27.95
 $\frac{3}{8}$ " dia. x 120', Wt. $4\frac{1}{8}$ lbs. CW312 \$15.50
 $\frac{3}{8}$ " dia. x 150', Wt. $5\frac{1}{2}$ lbs. CW315 \$18.95

NYLON TUBULAR SLING MATERIAL: Two sizes:
1" width, test about 4800 lb. Wt. $1\frac{1}{2}$ oz. per yd. TN100 foot 9¢
 $\frac{1}{2}$ " width, test about 1000 lb. Wt. $\frac{3}{4}$ oz. per yd. TN012 foot 4¢



PERLON SOLID CORE CLIMBING ROPE. Imported from West Germany. Solid core of parallel strands with woven exterior sheath. Excellent handling qualities. High strength. Color: red. $\frac{3}{8}$ " or $\frac{7}{16}$ " inch diameter.

$\frac{3}{8}$ " dia. x 120 feet, tests 4500 lbs. Wt. $4\frac{1}{4}$ lbs. CP312 \$25.00
 $\frac{3}{8}$ " dia. x 150 feet, tests 4500 lbs. Wt. $5\frac{1}{2}$ lbs. CP315 \$31.50
 $\frac{7}{16}$ " dia. x 120 feet, tests 5950 lbs. Wt. 6 lbs. CP712 \$35.00
 $\frac{7}{16}$ " dia. x 150 feet, tests 5950 lbs. Wt. $7\frac{1}{8}$ lbs. CP715 \$41.50



LEATHER COVER FOR ICE AXE HEAD. Two-piece leather construction with buckle for adjustment. Wt. $1\frac{1}{2}$ oz. MA220 \$2.25

RUBBER COVER FOR ICE AXE HEAD. Molded in one piece. Will stretch to fit ice axe head. Wt. $1\frac{1}{2}$ oz. MA221 \$1.25

ICE AXE RUBBER TIP PROTECTOR. Very hard rubber tip, serrated at bottom, with tapered hole for ice axe point. Can be used when walking with axe. 2 $\frac{1}{2}$ " long, wt. 1 oz. MA222 50¢

ICE AXE REPLACEMENT GLIDE RING AND HAND STRAP. $\frac{3}{4}$ " white nylon web strap with aluminum glide ring and stop screw. Fits all axes listed. Wt. $\frac{1}{2}$ oz. M110 \$1.25



SIMOND EVEREST 12-POINT CRAMPONS. Truly a crampon for the most difficult of ice climbing. The long (1 $\frac{1}{2}$ ") points are definitely superior for most snow conditions; broad toe points provide better grip on steep, technical walls. Avg. wt. $1\frac{1}{4}$ lb. MC512 Send outline of boot soles when ordering. \$21.50

GRIVEL FOUR POINT INSTEP CRAMPONS. High quality steel model for occasional use on non-technical ice. Includes leather straps. Weight 11 oz. Send outline of boot soles when ordering. MC404 \$6.50



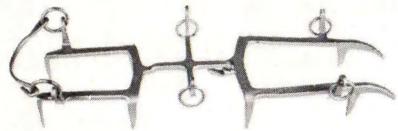
SNOW GOGGLE. Ventilated aluminum frame. Cushioned by moulded rubber attached to rim of frame. Adjustable elastic head band. Two models:

With plastic lenses, wt. 1 oz. ME101 \$.95
With glass lenses, wt. $1\frac{1}{2}$ oz. ME100 \$1.20
Spare lenses: Glass .30 pr. Plastic .20 pr.

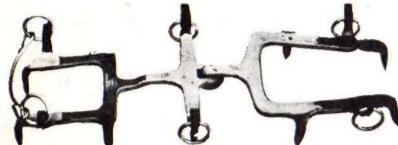
SAFETY GLASSES. An ideal glass for skiers and climbers. Frames are tough cellulose acetate butyrate. Dark green Calobar lenses made of "Super Armorplate" glass. Lens mountings designed to prevent glass being driven toward eye if blow is received by glasses. Green perforated side shields. Five barrel hinges are corrosion-resistant. Wgt. 2 oz. ME102 \$6.00



STUBAI FOUR POINT INSTEP CRAMPONS. Recommended for limited use where short stretches of ice must be crossed. Useful for ski-touring. Adjustable. Hemp straps included. Wt. 11 oz. complete. Send boot outline when ordering. MC204 \$2.95



STUBAI CRAMPONS. Made in Austria. Quality coated steel. Point depth 1 1/8". 10 points, including 2 projecting front points. Straps not included. Ave. wt. 21 oz. per pair. Send outline of boot sole when ordering. MC210 \$12.95



ALPINE 10 POINT CRAMPONS. Made in Austria. Extremely sturdy for their weight. Recommended for general ice and snow use. Point depth 1". Ave. wt. 21 oz. per pair. Straps not included. Send outline of boot sole when ordering. MC310 \$11.50

ALPINE 12 POINT CRAMPONS. Straps not included. Send outline of boot sole when ordering. Ave. pair weight 23 oz. MC312 \$12.75



NYLON CRAMPON STRAPS. Strong nylon webbing with quick-release buckles. Easy to attach to crampons with dot rivets provided. Fit any crampons which have rings for attaching straps. Wt. 5 oz. M106 \$2.50

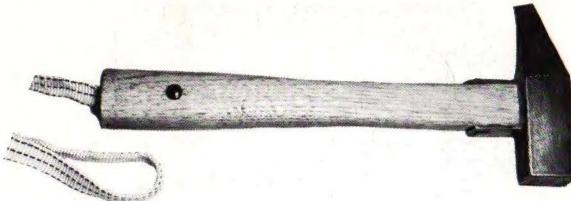
CRAMPON SPIKE PROTECTOR. Rubber caps completely cover sharp crampon spikes. Unit molded rubber will stretch to fit various size crampons. Specify for 10 or 12 points. Wt. 2 1/2 oz. M102 \$1.25



LONGTHONG CRAMPON STRAPS. Strong nylon straps with quick-release buckle, 62" long. Weight 3 oz. M108 \$2.50

CRAMPON STRAPS. Strong cotton straps with swivel buckle for easy release. 62" long. 3 oz \$1.50/pr. In nylon \$2.50/pr.

CRAMPON CARRYING CASE. Protects equipment from sharp crampon points. Aluminum mesh base plate with canvas cover. Wt. 6 oz. M102 \$4.25

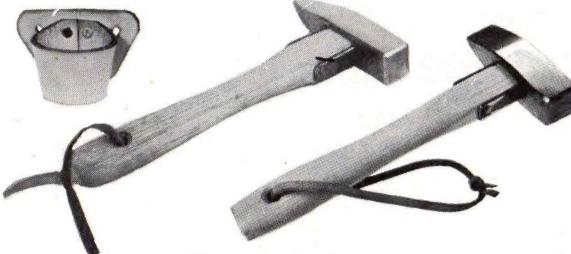


CHOUINARD YOSEMITE HAMMER. From the maker of the world's finest technical rock equipment. Prototypes of this hammer were six years in the testing by Yvon Chouinard and Tom Frost on the great rock walls of North America. Perfectly balanced 18 oz. head is mounted on a handle of American hickory. Blunt pick end serves dual purpose, to pound pitons in tight places and to pry when necessary. Each hammer comes with a permanently attached shoulder sling. Overall weight 22 oz. HH202 \$9.00



SALEWA ADJUSTABLE CRAMPONS. Can be adjusted to fit any boot—and fit it well. Enough latitude to accommodate from size 6 to 13, any width. An exceptionally strong crampon, for the most difficult of ice climbing. Twelve points, including downward-projecting toe points. Curved front coincides with rocker of boot sole for closest fit. Weight 1 lb. 6 oz. MC612 \$13.75

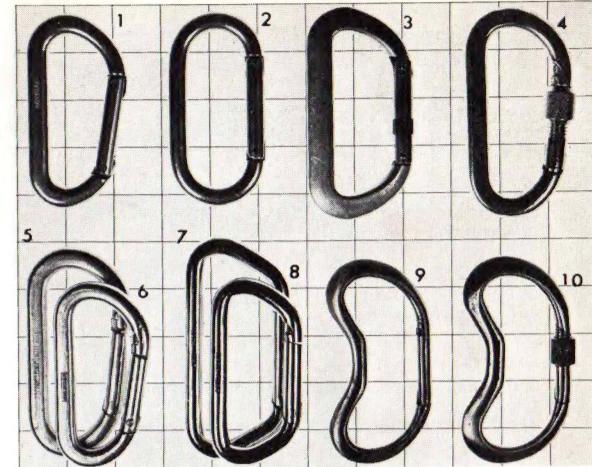
ALUMINUM SNOW SHOVEL. Supplements the ice-axe for high mountaineering in regions of heavy snowfall. Heavier than our light-duty shovel (p. 5), but more able to take heavy use day after day. Essential for construction of snow-caves, tent platforms, or other snow removal problems. Aluminum blade 11" x 14", ash handle 32" long with steel D-grip. Wt. 2 1/2 lb. MA211 \$7.00



PITON HAMMER MODEL 'P'. Made in Austria. Pointed end. Lighter weight model. Ash handle with leather thong. Head anchored with iron straps. 9 1/2" handle. Wt.: 1 lb. HH100 \$2.50

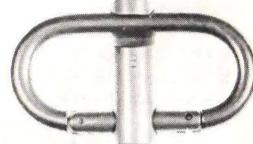
PITON HAMMER MODEL "C." Made in Germany. Chisel end. Ash handle with leather thong. The head is anchored with iron straps. 9 1/2" handle. Wt. 1 1/4 lb. HH101 \$2.95

HAMMER HOLSTER. Leather. Riveted construction. Slits for belt. Holster is located up close to belt slits so it will not rotate when pulling hammer out. Wt. 1 oz. HH110 \$1.50



photographed over a grid of 1" squares

- 1) **CHOUINARD CARABINER.** Aluminum alloy. Tests about 4500 lbs. Wt. 2 1/3 oz. HK100 \$3.00
- 2) **SKI HUT OVAL CARABINER.** Aluminum alloy. Tests about 3000 lbs. Wt. 2 oz. HK101 \$2.50
- 3) **SALEWA CARABINER.** Aluminum alloy. Tests about 4900 lbs. Wt. 2 1/3 oz. (Will not pass through piton eye smaller than 1 1/32") HK102 \$2.75
- 4) **CASSIN LOCKING CARABINER.** Steel. Tests about 4800 lbs. Wt. 7 3/4 oz. HK211 \$2.00
- 5) **CASSIN LARGE CARABINER.** Steel. Tests about 4000 lbs. Wt. 7 oz. HK212 \$1.75
- 6) **CASSIN STANDARD CARABINER.** Steel. Tests about 2860 lbs. Wt. 4 1/4 oz. HK210 \$1.50
- 7) **CHROME-VANADIUM LARGE CARABINER.** Extra high strength. Tests about 7500 lbs. Wt. 6 1/2 oz. HK214 \$3.25
- 8) **CHROME-VANADIUM STANDARD CARABINER.** Extra high strength. Tests about 7500 lbs. Wt. 4 1/2 oz. HK213 \$2.95
- 9) **MARWA CARABINER.** Steel. Tests about 4000 lbs. Wt. 5 oz. HK215 \$3.00
- 10) **MARWA LOCKING CARABINER.** Steel. Tests about 4000 lbs. Wt. 5 1/2 oz. HK216 \$3.25



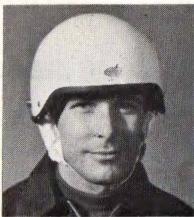
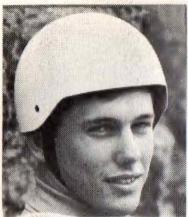
PULLEY. Nylon wheel grooved to take 7/16" rope. Free swinging metal flanges punched for carabiner. Wt. 4 oz. HK301 \$1.65

BRAKE BAR. Made of aluminum. For friction braking on rappels. Machined to fit Ski Hut oval carabiner. Wt. 1 1/2 oz. for bar only. HK300 \$1.00



FLAT LEATHER RAPPEL PATCH. A 4" x 20" piece of thick latigo leather. Two punched holes with thongs. 8 oz. M103 \$2.95

MOLDED LEATHER RAPPEL PATCH. One piece leather with thongs attached. 8 oz. M104 \$3.75



ROCK HELMETS

BELL FIBERGLAS ROCK HELMET. This hard hat combines the greatest possible protection with the least possible weight. Both models are lined with slow-rebound foam rubber; thickly padded nylon band provides comfort against head. Two models:

MALIBU: Standard gauge fiberglas shell, simple $\frac{3}{4}$ " nylon chinstrap. Weight $1\frac{1}{2}$ lbs. HT102.....\$15.00

SKIAT: Heavy gauge shell; Snell foundation approved. Insulated collar wraps around back of head and ears. $1\frac{3}{4}$ lb. HT103.....\$25.00

FIBERGLASS MOULDED. Tested at 40 ft./lb. shock. Comfortable adjustable head band from 6 to 7 head size. Red or grey. Wt. 15 oz. HT100.....\$6.35

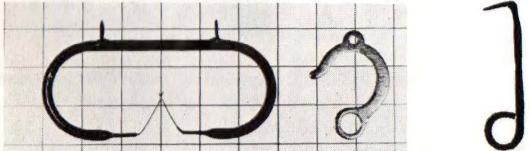
CHIN STRAP extra. HT101.....\$7.50

"SWAMI" BELT. Particularly useful for tension climbing. Offers good support to small of back. For general climbing allows easy tie-in and saves useful length of climbing rope. Extremely strong construction of nylon web, 3" wide tapering to 2" at front. Wt. 6 oz. M101.....\$3.95



NYLON TUBULAR SLING. 48" circumference loop made from 1" width tubular nylon, strongly stitched with nylon thread. Ultimate strength when looped over a bar, 4700 lbs. Wt. 2 oz. M105 .95¢
M105-44".....85¢

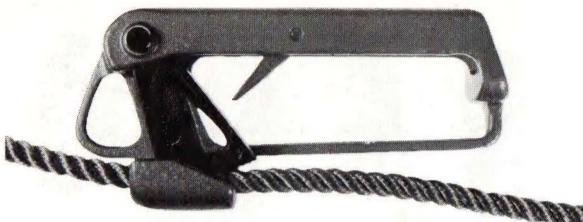
STIRRUP STEPS. Use with about 11 feet of Goldline $\frac{1}{4}$ " rope for assembly of your own artificial aid stirrups. Step size 5" x $1\frac{1}{8}$ ". Tempered Aluminum. $\frac{3}{4}$ oz. HE100.....each 55¢



PITON HOLDER. Metal oval with spring slip. Holds about 10 pitons; each can be easily removed or replaced. Wt. 3 oz. HE104 \$1.95

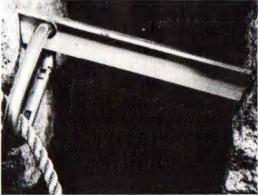
FIFI HOOK. Allows easy retrieving of rope ladders. Attached to ladder and hooked into piton eye. Retrieving line attached to small hole so ladder can be pulled up from above with ease. $1\frac{1}{4}$ oz. HE101.....\$.75

CHOUINARD CLIFFHANGER: Extremist device to hook on small rugosities and flakes with the view of eliminating bolts. 2 oz. HY009.....\$1.25



JUMAR ASCENDER. Swiss made device for ascending ropes. Replaces the use of Prusik knots. Strongly constructed of cast aluminum alloy. Can be used on ropes $\frac{1}{4}$ " to $\frac{1}{2}$ " diameter. Each ascender comes with $\frac{3}{8}$ " rope sling. Used in pairs. Total wgt. with sling rope 11 oz. ea...HE103.....\$15.00 each

\$29.50 pair

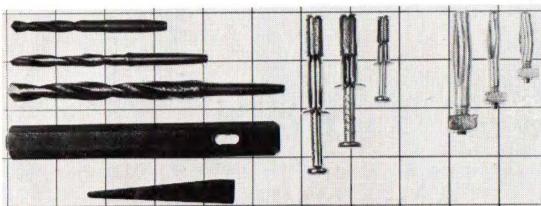


EXPANSION CRACK-JACK. A device for use in wide cracks where placement of conventional pitons is not feasible. Made of tough, heavy gauge aluminum alloy. Crack-jack provides a very strong anchor. It is positioned and then "jacked" tight by using hammer handle as lever. Std. model has 4" barrel for cracks 7" to 9" wide. Wt. 11 oz..HE200.....\$11.00

SPARE BARRELS. All interchangeable in above device. 3" for cracks 6"-8".....1.00

5" for cracks 8"-10".....1.40 6" for cracks 9"-11".....\$1.50

LONGWARE T-PIN PITON. Aluminum alloy piton of T-shaped stock. Application is to wide cracks. Piton hammered in across crack as shown above. Avg. wt. $2\frac{1}{2}$ oz. Lengths as below. 4", 5", 6". HD904.....54¢ ea. 7", 8", 9". HD907.....70¢ ea. 10", 12". HD910.....85¢ ea.



BOLT EQUIPMENT

1) HOLDER FOR $\frac{1}{4}$ " AND $\frac{3}{8}$ " DRILLS. 8 oz. HN100.....\$1.75

2) DRILLS: These are two-flute, for faster drilling times.

$\frac{1}{4}$ " size for rawl bolts HN214.....\$1.25

$\frac{3}{8}$ " size for $\frac{1}{4}$ " Star Dryvins HN414.....\$1.25

$\frac{3}{8}$ " size for Rawl or Star Dryvins HN238.....\$1.65

Above drills are made by Diamond and all will fit the holder listed above.

3) BOLTS: Rawl type: $\frac{1}{4}$ " stud x $1\frac{1}{2}$ " HN514.....\$.18

$\frac{1}{4}$ " stud x 2" HN614.....\$.20

$\frac{3}{8}$ " x $2\frac{1}{2}$ " HN638.....\$.30

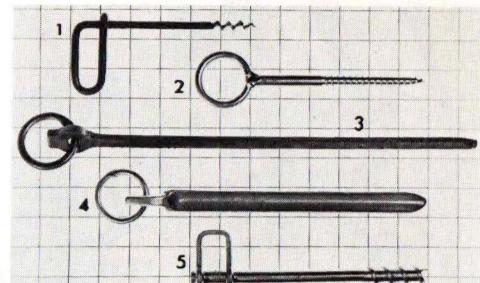
Star Dryvin type:

$\frac{1}{4}$ " x 1" HN714.....\$.11

$\frac{3}{8}$ " x $1\frac{1}{2}$ " HN838.....\$.18

$\frac{3}{8}$ " x 2" HN938.....\$.20

HARDWARE



Pitons photographed over a grid of 1" squares

1 AUSTRIAN ICE SCREWS. Corkscrew type. Easy to insert. Must be unscrewed to be removed. Design by Mariner.

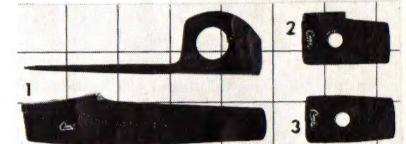
6 $\frac{1}{2}$ " shank. 7mm dia. shaft. Wt. 3 $\frac{1}{2}$ oz. HS306.....\$1.75
5" shank. 7mm. dia. shaft. Wt. 3 oz. HS305.....\$1.50

2 ICE SCREW. $1\frac{1}{4}$ " ID ring. Exceptional holding strength. Start with hammer and screw into ice. Wt. 5 $\frac{1}{2}$ oz. HS405. \$1.65

3 FLAT SHANK BARBED ICE PITONS. Assorted lengths from 7" to $14\frac{1}{2}$ ". Specified preferred length when ordering. Avg. wt. 8 oz. HS500.....\$1.00

4 CASSIN SEMI TUBE ICE PITONS. 8 $\frac{1}{2}$ " shank. Wt. 6 $\frac{1}{2}$ oz. HS800.....\$1.15

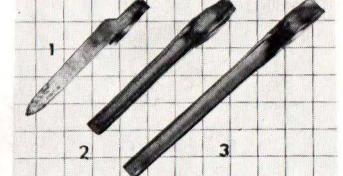
5 SALEWA HOLLOW TUBE ICE SCREW. A machine tooled ice screw of extreme strength and holding power. Sizes: 5" or 6 $\frac{1}{2}$ ". Wt. 4 oz. HS905. HS906.....\$3.75



1 CHROME-MOLY CMI OFFSET PITONS. Ten sizes. a) $\frac{1}{8}$ " thick x $1\frac{1}{4}$ ", b) $\frac{1}{8}$ " x 2", c) $\frac{5}{32}$ " x 2", d) $\frac{5}{32}$ " x $2\frac{1}{2}$ ", e) $\frac{3}{16}$ " x 2", f) $\frac{3}{16}$ " x $2\frac{1}{2}$ ", g) $\frac{3}{16}$ " x 3", h) $\frac{1}{4}$ " x 2", i) $\frac{1}{4}$ " x $2\frac{1}{2}$ ", j) $\frac{1}{4}$ " x 3". Avg. wt. 3 $\frac{1}{2}$ oz. Specify size when ordering. \$1.85

2 CMI CRACKTACK OFFSET PITONS. 1" wide blade or $\frac{3}{4}$ " wide blade. HB001.....\$1.75

3 CMI CRACK TACK FLAT PITONS. 1" wide blade or $\frac{3}{4}$ " wide blade.. HB000.....\$1.45



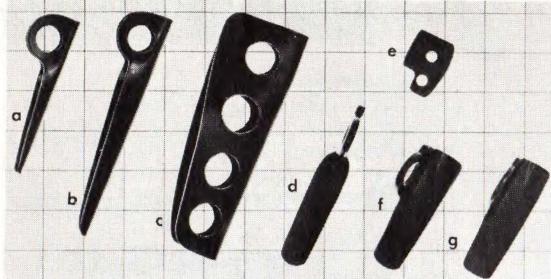
SIMOND

1) SIMOND BLADE: HS100 with $1\frac{3}{4}$ " blade, HS101 with 4" blade. Average weight $2\frac{1}{2}$ oz.....50¢

2) SIMOND U FORM: HS203 with $3\frac{1}{4}$ " blade, HS204 with $4\frac{1}{2}$ " blade. Average weight $3\frac{1}{2}$ oz.....87¢

3) SIMOND U FORM ICE PITONS: HS206 with $6\frac{1}{2}$ " blade, HS208 with 8" blade. Average weight 5 oz.....\$1.47

Pitons continued on next page.

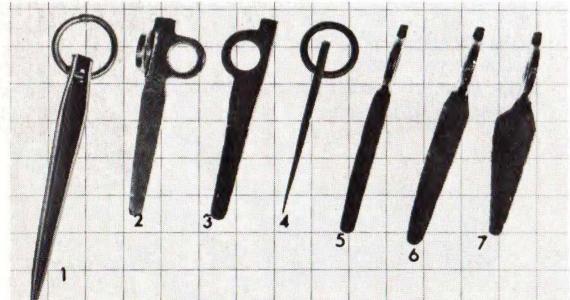


CHOUINARD PITONS

(a) WEDGE ANGLE:	Lighter than solid wedge pitons.	
1/2" -Blade length 3".	Wt. 2 oz.	HY102.....\$1.25
5/8" -Blade length 3".	Wt. 2 oz.	HY058.....\$1.25
(b) REGULAR ANGLE:	3/4".	Wt. 3 oz.
1".	Wt. 4 oz.	HY010.....\$1.35
1 1/2", Wt. 5 oz.	HY015.....\$1.65	
(c) 2". With lightening holes.	Wt. 6 oz.	HY020.....\$1.80
(d) LOST ARROW HORIZONTALS:	Lightest weight chromoly pitons	

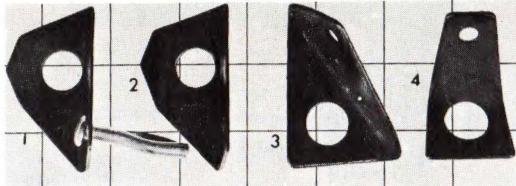
	Blade Length	Blade Thickness	Weight	Price
Short-thin	2"	5/32"	2 oz.	HY401 \$1.65
Short-medium	2 1/4"	3/16"	2 1/4 oz.	HY402 \$1.65
Short-thick	2 3/8"	9/32"	2 1/2 oz.	HY403 \$1.65
Long-thick	3 3/16"	9/32"	3 1/4 oz.	HY406 \$1.65
Long-medium	3 3/8"	9/32"	3 oz.	HY405 \$1.65
Long-thin	2 3/4"	9/32"	2 3/4 oz.	HY404 \$1.65
Long Dong	4"	9/32"	4 oz.	HY408 \$1.65
Wedge	2 3/4"	9/32"	3 1/4 oz.	HY407 \$1.65

(e) RURP: For use in hairline cracks.	3/4 oz.	HY000.....\$1.25
(f) BUGABOO PITONS:	Heavier than Lost Arrows, but cheaper.	
Knifeblade	7/64" thick, 1 1/2" blade.	1 1/2 oz.
Short-Thin	1/8" thick, 1 1/2" blade.	1 1/2 oz.
Long-Thin	5/32" thick, 3" blade.	3 oz.
Short-Medium	1/4" thick, 2" blade.	4 1/2 oz.
Long-Medium	1/4" thick, 3" blade.	5 oz.
(g) EXTRA THIN BUGABOO:	Blade length 1 1/2". Thickness .025 to .080.	Wt. 1 1/2 oz.



IMPORTED PITONS

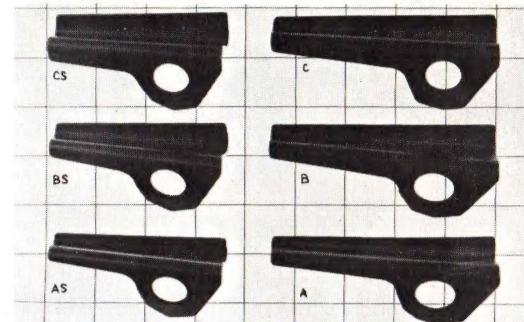
1. RING ANGLE.	7" long, wt. 4 1/2 oz.	HS001.....90¢
2. AUSTRIAN DOUBLE-EYE.	Wt. 3 oz.	HS100.....65¢
3. SWISS VERTICAL.	Wt. 3 1/4 oz.	HF100.....50¢
4. SWISS RING PITON.	Wt. 3 1/2 oz.	HF101.....50¢
5. SWISS THICK HORIZONTAL.	Wt. 3 1/4 oz.	HF200.....50¢
6. SWISS MEDIUM HORIZONTAL.	Wt. 3 1/2 oz.	HF201.....50¢
7. SWISS SPOON PITON.	Wt. 3 1/2 oz.	HF202.....50¢



HANGERS

- 1) LEEPER CARABINER HANGER WITH COMPRESSION BOLT. Chrome-moly hanger 1/16" stock. 1/4" rawl drive. 1 1/2" long. Wt. 1 1/2 oz. HL910.....\$.40 ea.
- 2) LEEPER CARABINER HANGER WITHOUT BOLT. Chrome-moly steel 1/16" stock. Specify 1/4" or 3/8" bolt hole size. Wt. 7/8 oz. 1/4" - HL914, 3/8" - HL938.....\$.25 ea.
- 3) LONGWARE CARABINER HANGER. Chrome-moly steel. 1/10" stock. Specify 1/4" or 3/8" hole size. Wt. 1 1/8 oz. Vertical model. 1/4" - HD914, 3/8" - HD938.....\$.15 ea.
- 4) LONGWARE CARABINER HANGER. Chrome-moly steel. Same specs. as hanger listed above. Horiz. model HD940.....\$.15 ea.

Pitons photographed over a grid of 1" squares

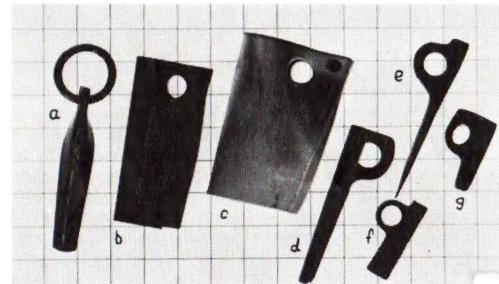


Leeper Piton -
Sectional View



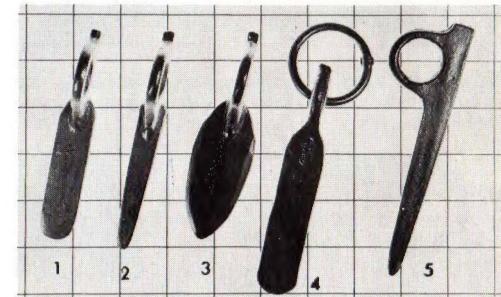
LEEEPER CHROME-MOLY PITONS

MODEL A: To fit cracks 5/16" to 7/16" wide.	
1 1/2" blade, 2 oz.	HL503.....90¢
2 1/2" blade, 2 1/2 oz.	HL504.....95¢
MODEL B: To fit cracks 7/16" to 9/16" wide.	
1 1/2" blade, 2 1/2 oz.	HL703.....90¢
3" blade, 3 1/2 oz.	HL704.....\$1.05
MODEL C: To fit cracks 9/16" to 1 1/16" wide.	
1 3/4" blade, 3 oz.	HL903.....95¢
3 1/2" blade, 4 1/2 oz.	HL904.....\$1.15



LONGWARE PITONS

- (a) CHROME-MOLY RING ANGLE PITONS: 3/32" stock. Two sizes 1" x 5" or 1" x 6". Wt. 4 1/2 oz. HD010.....\$1.00
- (b) CHROMOLY ANGLE PITONS: (no ring) Punched carabiner hole, riveted. All sizes are 5 1/2" long, in the following widths: 1 1/2" - 3 1/2 oz. HD015.....\$1.10 3" - 7 1/2" oz. HD030.....\$1.33 2" - 4 1/2 oz. HD020.....\$1.17 3 1/2" - 9 1/2 oz. HD035.....\$1.45 2 1/2" - 6 oz. HD025.....\$1.25 4" - 12 oz. HD040.....\$1.50
- (c) DURALUMINUM ANGLE PITONS: One-third lighter than Chrome-moly.
- 2" x 5" HD120.....\$1.40 2 1/2" x 5" HD125.....\$1.50
- 3" x 5" HD130.....\$1.60 3 1/2" x 5" HD135.....\$1.65
- 4" x 5" HD140.....\$1.75 4 1/2" x 5" HD145.....\$1.85
- 5" x 5" HD150.....\$2.00 6" x 5" HD160.....\$2.15
- (d) CHROMOLY U-FORM: Channel angle with taper from 3/8" to 5/8". Specify 4" or 5" long, 1 1/2 oz. HD058.....\$1.00
- (e) CHROME-MOLY HORIZONTAL PITONS: 6 sizes. (all horizontals)
- Long taper (Blade is 5/16 x 1/2 x 3 1/2") Wt. 4 oz. HD200.....\$1.45
- Short taper (Blade is 5/16 x 1/2 x 1 3/4") Wt. 2 1/4 oz. HD201.....\$1.45
- Blade (Blade is 1/4 x 5/8 x 2 1/2") Wt. 3/4 oz. HD204.....\$1.45
- Spoon (Blade is 1/4 x 7/8 x 2 1/2") Wt. 3/4 oz. HD205.....\$1.45
- Wedge (Blade is 3/8 x 1/2 x 2 1/2") Wt. 2 3/4 oz. HD203.....\$1.45
- Mini (Blade is 3/16 x 3/8 x 1 3/4") Wt. 2 oz. HD202.....\$1.45
- CHROME-MOLY KNIFE BLADE PITONS:
- (f) Vertical: 1" (Blade 3/32 x 5/8 x 1") Wt. 1/2 oz. HD001.....\$1.35 1 1/4" (Blade 3/32 x 5/8 x 1 1/4") Wt. 1/2 oz. HD002.....\$1.40
- (g) Offset: 1" (Blade 3/32 x 5/8 x 1") Wt. 3/4 oz. HD003.....\$1.50 1 3/8" (Blade 1/8 x 3/4 x 1 3/4") Wt. 1 oz. HD004.....\$1.65



ITALIAN CASSIN PITONS. Moderately malleable for good "bite" on rock surfaces. Styles as given below. Length of blade listed in inches. Avg. wt. 3 oz. All styles.....50¢

- 1 HORIZONTAL: HR035 - 3 1/2", HR023 - 2 3/4", HR015 - 1 1/2", HR11 - 1 1/4".
- 2 HORIZONTAL THICK: HR140 - 4", HR123 - 2 3/4", HR120 - 2", HR225.
- 3 HORIZONTAL SPATULA: Wide blade, 2 1/2" long. HR225.
- 4 RING WAFER: HR335 - 3 1/2", HR323 - 2 3/8", HR315 - 1 1/2", HR310 - 1".
- 5 VERTICAL: HR440 - 4", HR423 - 2 3/4".

CHOUINARD ALUMINUM BONGS.	(Not Illust.)
2" HY610 4 oz	\$2.00
2 1/2" HY611 6-1/2 oz	2.25
3" HY612 8 oz	2.60
4" HY613 10 oz	2.60



THOMMENS HIGH ALTITUDE ALTIMETER. Reads up to 21,000 feet with a reputed accuracy of \pm 30 feet within the entire range. Compensated for temperature changes. Instrument also has a barometric scale with a range of 22.5 to 31" of mercury. Comes in neat leather case. Size $2\frac{7}{8}$ " x $2\frac{1}{2}$ " x $\frac{7}{8}$ ". Wt. 2.8 oz. J100 \$45.00

MAP MEASURER. One of the most important aids to topographic or aerogautic chart reading that has ever been on the market. A direct reading map measurer: no conversion charts needed for any standard domestic maps. 1:62500, 1:31680 and 1:24000 scale maps can be read simply by running the little wheel over the distance to be measured; mileage will appear directly on the dial. Reverse dial is a conventional map measurer which can be used on any map. Precision made. $2\frac{7}{8}$ " long. Nickel plated. Wt. 1 oz. J201 \$2.50

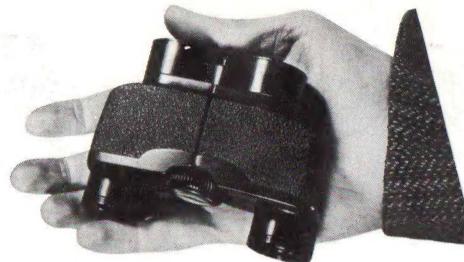
PEDOMETER. Registers up to 25 miles. Can be adjusted to length of stride. Hands register directly in miles. Constructed like a watch. Has clip for fastening to belt or pocket. Made in West Germany. Wt. 2 oz. J202 \$6.95



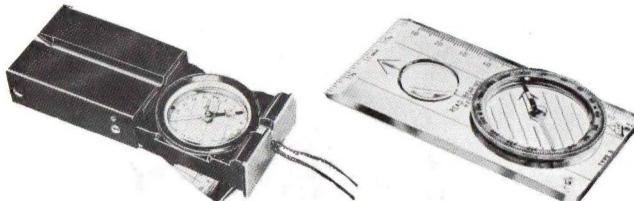
WIND SPEED INDICATOR. Reputed to have accuracy of $\frac{1}{2}$ mile/hr. on low scale and 3 mi./hr. on high scale. Dual range scale reads from 2 to 60 mi./hr. Instrument is precision die molded of acrylic plastic. Size 8" x 3" x $\frac{1}{2}$ ". Wt. 2 $\frac{1}{2}$ oz. J101 \$5.95

THERMOMETER. Ideal for mountaineers and campers. Range of -30° F. to 130° F. Comes in a metal case $6\frac{1}{4}$ " long, $\frac{3}{8}$ " diameter (about pencil size) with pocket clip and carrying ring. Wt. 1 $\frac{1}{2}$ oz. J102 \$2.50

MAX-MIN THERMOMETER. Has a range from -30° F. to 130° F. This instrument will record the lowest temperature and the highest temperature from the time of its last setting. Easy to reset. Small size $2\frac{3}{8}$ " x $10\frac{1}{2}$ " x $1\frac{1}{4}$ ". Wt. 6 oz. J103 \$12.95



BUSHNELL 6 x 25 CUSTOM COMPACT. This is the finest compact binocular we have ever seen. Superb optics, rugged construction and ultra-lightweight (11 oz). Features retractable eyecups that allow user a full field of view **EVEN WHILE WEARING GLASSES**. Clarity and brilliance of image is first-class. Includes fully lined, reinforced case of top-grade black cowhide, and Bushnell's 20 year guarantee on parts and service. Field of view is 420', exit pupil 4.2 mm, weight 11 oz. Center Focus J405 \$64.50



SILVA PROSPECTOR. Luminous points. Sapphire bearing. Waterproof. Graduated 0° to 360° . Liquid filled housing is fitted onto a drawer. Declination can be set off for any area. Closed size $2\frac{5}{8}$ " x $1\frac{7}{8}$ " x $1\frac{13}{16}$ ". Wt. 4 oz. J302 \$13.75

SILVA EXPLORER. Sapphire jewel bearing. Liquid filled housing stops oscillation within 4 seconds. Waterproof. Professional quality, especially for use with maps. Size, $2\frac{1}{8}$ " x $3\frac{5}{16}$ " x $\frac{1}{2}$ ". Wt. 1 $\frac{1}{2}$ oz. J301 \$4.95



SILVA HUNTSMAN. Sapphire jewel bearing. Liquid filled housing stops needle oscillation within 4 seconds. Luminous points. Waterproof. Closed cover serves as sun watch dial; open cover shows 360° graduations. Safety pin fastener attached. $1\frac{1}{2}$ " x $2\frac{1}{2}$ " x $\frac{3}{4}$ ". Wt. 1 oz. J300 \$5.95

SILVA RANGER. Lighting mirror for speed and accuracy. Sapphire jewel bearing. Highly magnetized needle encased in liquid. Luminous points. Waterproof. Appraised by many as the world's best hand compass. Used by surveyors and scientific explorers. Size 4" x $2\frac{1}{2}$ " x $\frac{3}{4}$ ". Wt. 5 oz. J303 \$14.95

LENSATIC COMPASS. Engineer's type compass with sighting device for taking azimuth readings. Small magnifying glass gives degree reading off compass face while sighting. Inexpensive, sturdy and lightweight. Wt. 2 oz. J307 \$2.95

INSTRUMENTS



BUSHNELL 6x25 PRISMATIC BINOCULAR. Lightweight wide angle (11°) viewing instrument. Magnifies 6 times, giving image of exceptional clarity and brilliance. Bushnell quality throughout; special hard coated lenses for superb light efficiency; single piece magnesium body for maximum durability with minimum weight. Fitted carrying case, plush lined and rigidly reinforced. Bushnell 20 year guarantee of free parts and service, if not damaged by abuse or negligence. Wt. 16 oz. Center Focus J402 \$49.50



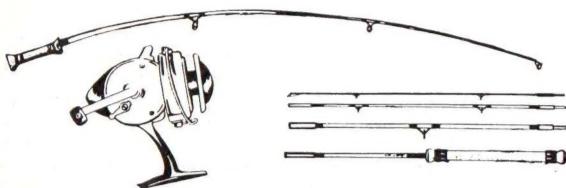
10 x 20 MONOCULAR. Made in Japan. This 10 power instrument brings in a clear, sharp image. Coated achromatic and objective lenses. Small, lightweight, precision built. With neck thong and carrying pouch. Wt. 4 oz. J404 \$15.00

BUSHNELL 7x18 PRISMATIC BINOCULAR. Featherlight, palm-pocket size. Magnifies 7 times. Light gathering ratio 2.57:1. Angle of field 6.2° . Bushnell quality throughout. For those who go light; mountaineers, backpackers or light-weight travelers. Includes fitted carrying case. Bushnell 20 year guarantee. Wt. 6 oz. Center Focus Only. J403 \$29.50



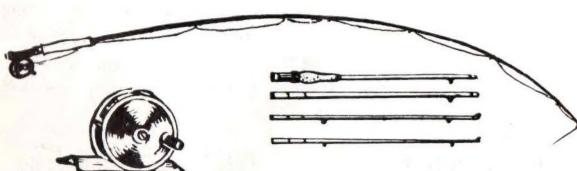
COLLAPSIBLE CREEL. A lightweight creel suited to the needs of the backpacker-fisherman. Main pocket is of waterproof, coated fabric. Cotton twill with two accessory pockets on outside. Nylon mesh air vents on ends. Shoulder strap of cotton web. 15" x 10" x 3" Wgt. 8 oz. K920 \$5.50

INFLATABLE LIFE VEST. Made of rubberized cotton fabric. Full front with shoulder yoke back. Two inflatable valves; one for a CO₂ cartridge, and the other for oral inflation. Color is yellow. An excellent safety vest for water sports. CO₂ cartridge is included. K303.....\$15.95
Extra cartridge.....39¢



4-PIECE FIBERGLASS SPINNING ROD. This 6 1/2' rod is made of 4 sections; each 21" long. Reputed to have the action of a 2-piece rod. Has 4 guides and tip. Finished in tan with brown wrapping. Can be easily packed. The rod itself weighs only 4 oz. Wt. with case included, 12 oz. K901 \$21.95

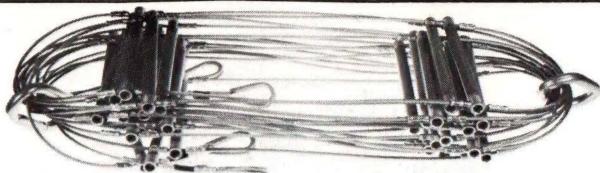
COMPAC SIERRA SPINNING REEL. The companion reel for the 4-Piece Spinning Rod. Has full bail, take apart handle and finger tip anti-reverse switch. Maroon enamel die case, aluminum body. Retrieve ratio 3.2 to 1 by reinforced nylon drive gear and brass pinion gear. Reel will hold 200yds. of 4 lb. monofilament. Wt. 5 1/2 oz. K911.....\$4.50



4 PIECE FIBER GLASS FLY ROD. An excellent dry fly action fly rod for easy "pack in." Stainless chromium plated guides. Nickel Silver uni-fit ferrules. Wrapping in attractive bands of green and gold colored nylon. Granger screw lock type reel seat. Length of each section is 22". Assembled length 7 1/2 ft. Rod weighs only 6 oz. Comes in 26" long aluminum container. Total weight 16 oz. K902.....\$21.95

PFLUGER FLY REEL. Aluminum single action reel. Removable spool and adjustable click. Frame is a green metal finish; spool in satin finish. Sturdy. Large line capacity. Wt. 3 1/2 oz. K912.....\$4.95

COMBINATION FLY AND SPIN ROD. Made by same manufacturer as above rods, but has an ingenious handle arrangement which allows the rod to be converted from fly to spin. Fly rod action. Length is 7 1/2 ft. Rod wgt. 9 oz. Aluminum container 25" long. Wt. 19 oz. K905.....\$26.75



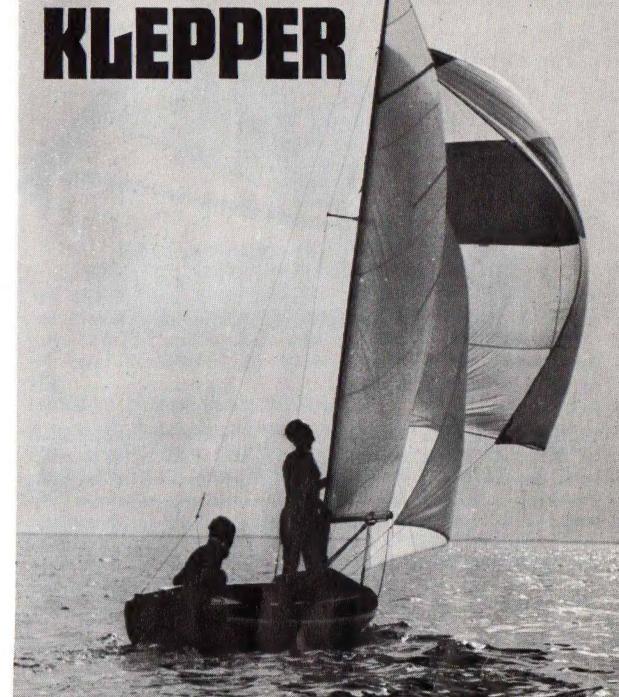
KBL CAVING LADDER: Very highest quality construction, design and strength. Designed primarily for cavers, but also used by many rescue organizations and this ladder was used for fixed routes by the American Everest Expedition. Construction: 1/8" galvanized steel cable rated at 2000 lbs. tensile and tested to failure at 4200 lbs. Aluminum rung crimps spaced to allow cable rotation; crimped twice. Aluminum tube rungs 1/2" x 6" tested to bending at 2200 lbs. NOTE: rung crimps did not slip or break. Two hole thimble crimp tested to 2800 lbs. crimped twice. Thimbles: to size for cable diameter and also house cable against abrasion. Ladder folds by twisting every other section and folding upon self . . . will fall free without tangling. Ladder is 30' long; join two together with carabiners. (Carabiners not inclu.) 30' ladder/12" rung centers. Wgt. 3 lb. 14 oz. K801.....\$25.00



KLEPPER FOLDBOATS have been twice sailed across the Atlantic Ocean — a marvellous feat for a boat that can be carried by one man, stowed in the trunk of a car, and erected in fifteen minutes. The secret is in the Klepper engineering. This remarkable craft has been in the process of perfection for over 50 years. The individual parts, straight-grained mountain ash with anodized aluminum fittings, lock into a tight and flexible framework. The hull is a tough laminate of rubber and canvas, fitting perfectly over the frame.

Klepper foldboats are undoubtedly the finest of their breed, having been a standard on many expeditions to the Arctic and tropic regions of the world.

CAVING • FISHING KLEPPER



KLEPPER AERIUS DOUBLE-SEATER. Unsinkable 17' 1" kayak. This is the one that crossed the Atlantic under sail. The built-in air spousons make this craft so stable afloat that one can crawl in over the side from the water, or stand up inside. Equally at home in white water, pounding surf, shallow marshes and lakes. Weight is 64 lb. K001.....\$369.00
With sailing equipment, 83 lb. K001/C.....\$488.00

With Dacron sails, K001/D.....\$512.00

KLEPPER MASTER. Four seater versatile dinghy. 11'-10" long with 4' beam. Can be used as a sailboat, rowboat, or motorboat. Unsinkable with 3 separate built-in air tubes. Packs in 3 bags. Wt. of boat 108 lbs. K002.....\$497.00*

KLEPPER MASTER WITH COMPLETE SAILING EQUIPMENT. Includes dacron sails and all accessories. Wt. of boat with sailing equipment 151 lbs. K002/D.....\$795.00*

With Cotton Sails, K002/C.....\$695.00

*F.O.B. New York. All boats normally stocked in Berkeley. Freight charges calculated on delivery points.

For further information on all Klepper boats, please write to us for illustrated brochures.

STANDARD DOUBLE BLADED TOURING PADDLE. K010.....\$13.75
SLALOM PADDLE "TACEN" STRAIGHT BLADES. K012.....\$15.00

DRIP RINGS, pair. K013.....\$3.50

HULL WAX, 9 oz. can, Silver. K020.....\$1.95

FABRIC KEELSTRIPS, 2 1/4" wide, 15' long, reinforced. K026.....\$7.50

RUBBER CEMENT for Keelstrips, 1 lb. can. K025.....\$1.75

SELF ADHESIVE TAPE for Emergency Repair. K023.....\$0.50

SERVICE KIT for repairing small tears in hull and deck. K024.....\$1.25

RUBBERIZED HULL PAINT, 2 lb. can, Silver. K021.....\$5.50

WATERPROOF PAINT for Canvas Deck, 2 lb. can, Blue. K022.....\$6.00

BOOK, "SAILING," a guide for small sail boats......\$1.00

KNIVES · SAWS · AXES



WONDA-WIRE SAW. A fine item to have in a survival kit. Hardened steel saw weighs only $\frac{1}{2}$ oz., yet saws wood, ice, plastic, masonite, plaster, etc. with ease. A bow can be cut of green wood and fitted to the end-rings, making a bucksaw for around the camp. J522.....89¢

SVEN SAW. Rugged folding bucksaw with tempered Swedish Steel blade. One wing nut secures entire assembly when in use or when being carried. The 20" blade is completely and safely enclosed when saw is folded. The frame is of anodized aluminum and designed for maximum rigidity while being light in weight and easy to assemble. Saw is very fast and will zip through large logs even when frozen. Carrying size is 23" x $1\frac{1}{2}$ " x $\frac{1}{2}$ ". Wgt. 1 lb. \$6.50
Extra blades w/attached stud. J521.....\$1.60



SWEDISH FOLDING SAW. Leave your hatchet behind and save weight. This saw weighs only 9 oz. and folds up safely in its own handle. 11" blade makes short work of 6" logs. J500.....\$4.25

SURVIVAL SAW. High carbon manganese tool steel blade, with carefully hardened, filed and set high speed teeth. Will cut 16" to 18" snow blocks and green, frozen or dry logs up to 20" at great speed. Ice pick edge used to start hard snow or ice. Back edge has 2" razor edge to use for skinning or emergency knife. Grip is hardened alum. alloy. Red lacquer for easy visibility. Case is of O.D. canvas with reinforced tip and hanger. Folded in case 14 $\frac{1}{2}$ ". Assembled 20 $\frac{1}{4}$ ". Wgt. tool 10 oz. J516.....\$13.95



ESTWING AXE STANDARD MODEL. Forged from one piece of tempered steel. Vinyl-nylon grip permanently molded to handle. 13" long. Cutting bit 3 $\frac{1}{4}$ " long. Leather sheath included. Wt. 25 oz. J512.....\$6.50

LIGHTWEIGHT MODEL. Same basic design as above. Rawhide grip. 12" long; cutting bit 2 $\frac{7}{8}$ ". Leather sheath included. Wt. 1 lb. J511.....\$5.50

ESTWING ROCK PICKS. Head and handle are forged from one piece of oil tempered tool steel. Vinyl-nylon grip is permanently moulded to handle and cushions against 'chipping' shock. Two models:

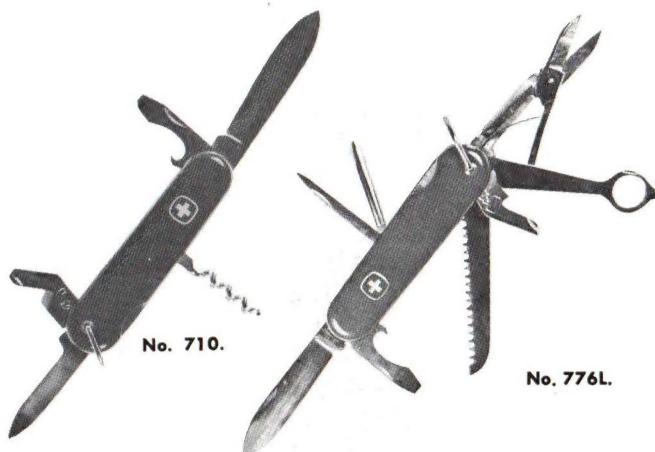
Rock Pick with 22 oz. head, Wt. 2 lbs. J514.....\$5.50
Rock Pick with 14 oz. head, Wt. 24 oz. J513.....\$5.00
Leather Sheath extra, Wt. 1 $\frac{1}{2}$ oz. J515.....\$1.00



SWISS ARMY ISSUE KNIFE.

SWISS ARMY KNIFE No. 779.
Large Blade • Nail File • Scissors • Saw • File
• Can Opener • Hook Disgorger and Scaler • Screwdriver
• Cap Lifter • Tweezers • Phillips Screwdriver
• Awl • Pick • Lanyard.
Closed size 3 $\frac{1}{4}$ " x 1" x $\frac{7}{8}$ ". Weight 4 $\frac{3}{4}$ oz. J779.....\$12.50

SWISS ARMY ISSUE KNIFE. Authentic, sturdy, functional knife as ordered and used by the Swiss Army. Features one 2 $\frac{3}{4}$ " main blade, can opener, screw driver, scraper and two inch long hole punch. Stainless steel parts. Wt. 3 oz. J701.....\$4.95



SWISS ARMY KNIFE No. 710.

Large Blade • Nail File • Scissors • Saw • File
• Can Opener • Hook Disgorger and Scaler • Screwdriver
• Cap Lifter • Tweezers • Phillips Screwdriver
• Awl • Pick • Lanyard.
Closed size 3 $\frac{1}{4}$ " x 1" x $\frac{7}{8}$ ". Wt. 2 $\frac{1}{2}$ oz. J710.....\$5.95

SWISS ARMY KNIFE No. 776L.

Large Blade • Nail File • Scissors • Saw • Fire-starting Glass • Can Opener • Screwdriver • Cap Lifter • Tweezers • Tooth Pick • Phillips Screwdriver
• Awl • Lanyard.
Closed size 3 $\frac{1}{4}$ " x 1" x $\frac{7}{8}$ ". Weight 4 $\frac{3}{4}$ oz. J776.....\$12.50



EXECUTIVE SWISS ARMY KNIFE. Diminutive size (2 $\frac{1}{4}$ " long) conceals a variety of useful functions: Pen Blade, Nail File and Scissors are keenly honed and operate with watch-like precision. For fly-tying, manicuring, coupon-clipping, pipe reaming, opening packages . . . for those who need a good knife but don't like an inelegant lump in the pocket. Wt. $\frac{1}{2}$ oz. J782.....\$5.30

SWEDISH HUNTING KNIFE. Best quality Swedish tempered steel. Hollow ground blade holds an exceptionally keen edge. Wood grip with steel cap. 4 $\frac{3}{8}$ " long blade. Comes with riveted leather sheath reinforced with steel; loop for belt. Wt. (including sheath) 5 $\frac{1}{2}$ oz. J781.....\$2.95

POCKET SHARPENING STONE. For light use. Size 3" x $\frac{7}{8}$ " x $\frac{3}{8}$ ". Wt. 1 oz. J790.....50¢

LIGHTS • LANTERNS



FRENCH CANDLE LANTERN. Cylindrical aluminum lantern, 2" x 4 1/2" when collapsed, opens to 11 1/2" long. Shielded glass chimney; spring mechanism keeps candle at uniform burning height. Bright enough to cook by in a tent, much lighter than a flashlight in weight. Long out of stock, this very popular lantern is available again for 1966. Stearene candle adapts nicely by cutting 1/2" off the bottom end. Weight 3 3/4 oz. E209 \$4.00

STEARENE CANDLES. Will burn about 3 hours. Can be used with candle lantern by shaving lower end to fit lantern. Size 3/4" dia. x 4 3/4" long. Wt. 1 oz. Each 7¢. 1 dozen for. E211 \$.75

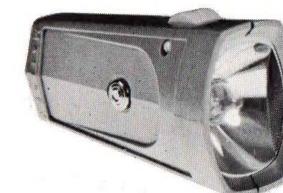
CARBIDE LAMP. Small miner's lamp. Burns carbide gas. Stands 3 3/4" high; 3/4" flat hook for attaching to cave helmet listed on page 19. Two sizes: 2 1/2" reflector dia. 7 oz. E212 \$3.95
4" reflector dia. 8 1/2 oz. E213 3.95

Note: Carbide fuel not mailable, but can usually be obtained locally.



FORESTER HEAD LAMP. Holds 4 standard size flashlight batteries. Throws a powerful 1500 ft. beam or focuses to a wider light. 2 1/2" reflector. Battery case (5 1/2" x 3" x 1 1/2") will fit in pocket or clip on belt. Head band with lamp attached is elastic and adjustable. Finished in chip-proof red enamel. Weight 12 oz. Without batteries . E102 \$4.95

BRITISH HEAD LAMP. This exceptionally well made and sturdy lamp will hold 3 standard flashlight batteries. The lamp may be detached from the battery case and worn on the head by means of the elastic band while the battery case is carried on belt or in pocket. On the case is a wire bail which can be pulled into position for hand carrying the lantern. The battery case size is 5 1/2" x 3" x 1 1/2". Grey finish. Wt. without batteries 14 oz. E101 \$6.25



MALLORY POWER BEAM FLASHLIGHT. Compact flashlight that throws 250 foot beam. Moulded plastic case. Comes with 2 long life, penlight size, Manganese Batteries. Size approximately 1 3/4" x 1 1/4" x 4" long. With batteries weighs only 3 1/4 oz. E105 \$1.98

SPORTSMAN FLASHLIGHT. Has a knurled barrel and a ring hanger in the removable end cup. Lightweight all-metal construction. Precision made for dependable service. 6" long. Weight with two 'C' size standard type batteries, 7 oz. E103 \$2.29



LITTLE WONDER MINI LIGHT. Amusingly small, but a rugged and versatile performer. Leaves both hands completely free. Whether rummaging in a dark rucksack on a black night, or replacing a fuse at home, this is the perfect light. Elastic band allows it to be used as a headlamp; suction cup makes for fastening on any smooth surface (including yourself); strong magnet will attach light to metal surfaces. Light is mounted on ball and socket to battery compartment, so beam can be swiveled in any direction. 2" x 1 1/2" x 2 1/4". Wgt. 3 1/2 oz. with batteries. Uses 2 std. pen-light cells. Light without batteries. E106 \$3.50

ALKALINE BATTERIES. For continuous heavy drain application. Will last from five to ten times as long as ordinary batteries. Three sizes:
"D" Size. 1 1/4" diameter. Wt. 4 oz. E124 75¢
"C" Size. 1" diameter. Wt. 2 oz. E123 60¢
"AA" Size. 5/8" diameter. Wt. 7/8 oz. E121 50¢
4 "AA" size cells \$1.95



BLEUET BUTANE LANTERN. One of the best compact lanterns we have yet seen. Uses pressurized cartridges as in the S-200 stove (P. 41). Economy and simplicity of operation; just turn valve and light. Stove will burn for 4 1/2 to 5 hours at full on position. Globe is of frosted glass, providing a bright glare-free light. 12" high. Wgt. 2 lb. 5 oz. with one full cartridge. E216 \$12.95

EXTRA BUTANE CARTRIDGES FOR LANTERN. PAGE 43



ORANGE SMOKE BOMB. Friction lighting bomb expelling a tremendous volume of Non-Toxic bright orange smoke. Daylight use. Burns approx. one minute. 2 1/2" x 5". Wgt. 3 oz. E505 \$2.50

FLINT STICK. Gives off a high-temperature, fat spark that will ignite flammable gases and liquids or tinder. Comes in kit with flint, striker, tinder, and key-ring. The size of a house key but it could save your life. E504 98¢

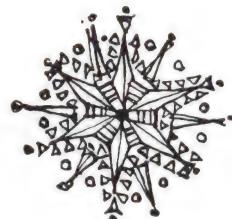


LUBRIDERM LOTION. Recommended for chapping, wind-burn, relief of sunburn. Flat plastic bottle with flip-close valve. 4 oz. net. G105 \$1.00

NEO A-FIL. Colorless cream that prevents burning, but allows tanning. Plastic squeeze tube. 1.5 oz. net. G106 \$1.50

A-FIL SUN CREAM. Flesh tinted cream that screens all burning and tanning rays. Excellent for high altitudes. Plastic squeeze tube. 1.5 oz. net. G107 \$1.50

A-FIL SUN STICK. For lips that are sensitive to sun and wind. G108 \$.98



GLACIER CREAM. Red tube prevents burning and tanning at high altitudes. 1 oz. G101 \$.80

Green tube allows tanning, is non-greasy. G102 \$.70

TANOSOL: Sun Creme. Comes in lotion form; packaged in 1 oz. unbreakable plastic squeeze bottle. Wt. 1 oz. Price . G104 35¢



METAL MIRROR: Highly polished. Has hole for hanging. Pocket size 3" x 4". Wt. 2 1/2 oz. Price . G201 30¢

PLASTIC SOAP DISH: Made of durable plastic. Has hinged lid and lock to keep it closed. Size 4" x 2 3/4" x 1 1/2". Wt. 1 1/4 oz. Price . G204 26¢

WATER PURIFICATION TABLETS: Kills bacteria and germs within seconds. A must for health protection. One small bottle contains 100 tablets G113 \$.55



DRAWSTRING CLAMP. Spring loaded plastic clamp that will hold drawstrings (up to parachute cord size) on parka hoods, rucksacks, etc. Wt. 1/4 oz. R901 60¢

NYLON CORD. All nylon 1/8" cord. Tests about 550 lb. 100' hank C100 6 oz. 1.50 50' hank C050 3 oz.89



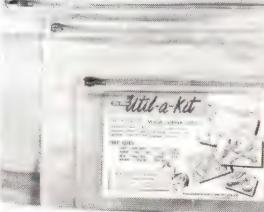
PACK SCALE. 80 lb. range. Made by Chatillon. Sturdy construction. Wgt. 1 lb. 6 oz. R902 \$10.50

FLINT-STICK. Gives off a high temperature spark that will ignite flammable liquids, gases or tinder. Comes with flint, striker, tinder and carrying ring. The size of a house-key, E504 \$.98

SNAKEBITE KIT: The famous Cutter snakebite kit. Consists of three suction cups, vial of antiseptic, lymph constrictor, and knife blade. An important item for all campers. 1" diam. x 3". Wt. 1 oz. E505 \$2.49

UTILITY POUCH: Flat plastic pouches for keeping small items together and dry. Clear plastic with slide closure. Average wgt. 1 oz. Three sizes:

9 1/2" x 13" G206/913 \$.45
8" x 11" G206/81135
6" x 9" G206/6925



WONDA-WIRE SAW: A hard-steel wire pocket saw. Saws: wood, rubber, plastic, masonite, plaster, ice, etc. Wt. 1/2 oz. J522 \$.89

MARBLES MATCH BOX: Made of seamless drawn brass with rough surface match scratcher on sides. 2 3/4" x 1" dia. Wt. 1 oz. E505 \$1.75

PLASTIC MATCH BOX: Water-proof hard plastic matchbox. Color: O.D. Cork gasket, striking flint. Size 2 3/4" x 1" dia. Wt. 3/4 oz. E506 \$.40



BELT HOOK: A sturdy nylon strap with swivel snap hook for attaching cups, canteens, etc., to the belt. 1 oz. A122 \$.70

PLASTIC WHISTLE: A must for safety in the mountains. Ivory color. Wt. 1/2 oz. E503 \$.30

GLASS GARD: A must for the active person who wears glasses. Fastens simply and securely on your glass frames. Adjustable elastic band keeps glasses safely in place. Wt. 1/4 oz. Price . E504 \$1.00

COTTON MOSQUITO NET: Best protection from mosquitoes, gnats. Brand new Army surplus. O.D. color. Wt. 3 1/4 oz. Price . G114 .59

IDENT I SKI LOCK: Precision made combination lock. Lock ends are joined by 32" length steel wire, vinyl covered. Wt. 2 1/2 oz. E508 \$4.50





NORELCO CORDLESS SHAVER. Norelco shavers are known for their high quality, performance and service. No cord, no recharger, runs on four pen-light batteries. Twin rotary shaver heads with 12 self-sharpening blades. High speed self-lubricating motor; flip-top cleaning. Mirror is built into lid of sturdy zipper case. Unbeatable for travel, desk, car or boat. One year warranty. Wt. 12 oz. w/o batt. G300.....\$18.25 Heavy-drain Manganese Pencells ea. \$.50 Four at\$1.95



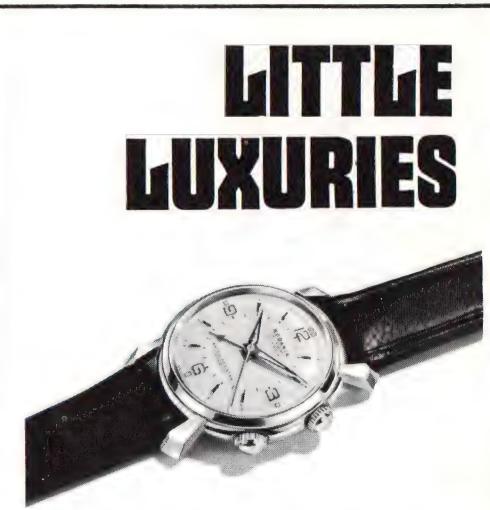
GUITAR KIT. Only the simplest woodworking tools are required to assemble this fine German guitar. Parts are pre-formed; the more complicated bending operations are done for you. C-clamps, small chisel, coping saw, files will suffice. This is not merely a beginner's instrument, but a good folk-style guitar. Shipping wt. 6 lb. J999.....\$19.95



AUTHENTIC BASQUE WINEBAGS. Made of natural, tan colored leather. Lined with tasteless clear coating to protect contents. Trimmed in bright red piping and fitted with red sling cord. The contents can either be poured from the filler spout or squirted in a fine stream. French import.

1 Qt. Teardrop shape. 5 oz. U682.....\$5.00
1 1/2 Qt. Teardrop shape. 6 oz. U683.....\$6.00

1 Qt. Kidney shape. 5 oz. U680.....\$6.00
1 1/2 Qt. Kidney shape. 6 oz. U681.....\$7.00



ALARM WRIST WATCH. Swiss made. Sweep second hand. Stainless steel case. 17 jewels. Antimagnetic incabloc. Unbreakable main-spring. Buzz alarm will run for 15 seconds. Leather wrist band. Watch size 1 1/8" Dia. x 3/8". Wt. 1 1/2 oz. J105\$39.50



SWISS COW BELLS. Gay and decorative for your mountain cabin. Made of Brass. Colorfully trimmed leather yoke attached to each bell. Two styles.

Oval Shape: Bell size 3"x3"x2". Yoke extends 5" above bell. Wt. 7 oz. J900 ...\$5.50
Bell Shape: Base 3", height 2". Yoke extends 4" above bell. 9 oz. J901.....\$5.00

ALPINE CANE. Imported from Germany. Good companion for mountain trail hiking. Strong lightweight wood from the Weichsel shrub. The end is fitted with metal ferrule and spike. Length 36". 8 oz. MA211.....\$2.95



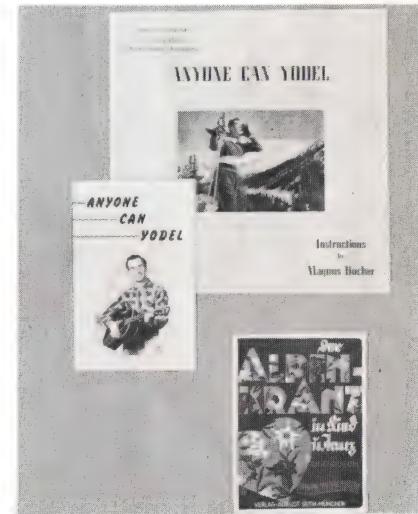
TRADITIONAL

SWISS FONDUE SET. For making Beef Fondue right at your own table. Each guest prepares his own serving by dipping tender pieces of cubed beef into the hot oil contained within the pot. Set consists of brass alcohol stove, iron tripod, brightly polished solid copper pot with silver plating on inside (1 1/4 qt. cap.), handsome brass base plate, and skewers for four. A beautiful set that would also make an ideal gift. Recipes included. Wt. 4 3/4 lbs. U190\$22.50



CONTEMPORARY

COPPER FONDUE SET. A strikingly handsome Fondue set made in Switzerland. Heavy gauge copper pot of contemporary design (1 1/4 qt. capacity); black wrought-iron stand and copper base plate with copper alcohol stove. Inside of pot is polished silver finish. Skewers provided. You will find it a delight to prepare and serve Fondue dishes at your table. See food pages for Fondue made of Swiss & Gruyere cheeses with Kirsch. Recipes included. Wgt. 5 lbs. 2 oz. U191\$25.00



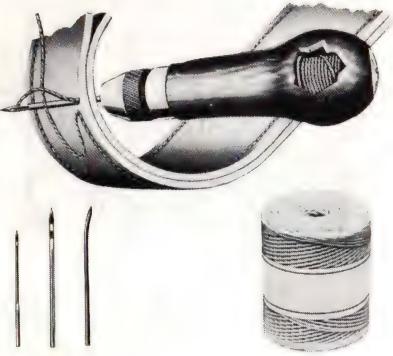
"ALPENKRANZ" YODEL SONG BOOK from Austria. In German. 150 pages of well-known Austrian folk-songs, many of them with yodel accompaniment. Music written for guitar. Twelve yodel lessons with discussion of technique. Brighten your mountain trips with these lively Austrian songs.....\$1.75

ANYONE CAN YODEL. LP record teaches the fine points of yodeling. Entertaining with a variety of yodel tunes.....\$5.00

ANYONE CAN YODEL. Comprehensive self study of yodeling in booklet form. 17 pp. \$1

LITTLE LUXURIES

FABRICS



STANDARD SPEEDY STITCHER SET. For sewing any heavy material, including leather, canvas, rubberized fabrics, etc. Lock stitch. Kit contains: Stitcher with bobbin loaded with nylon thread, 3 needles (1 light strength, 1 heavy and 1 heavy curved). Wt. 3½ oz. N201 \$1.75

DELUXE SPEEDY STITCHER SET. This set includes, in addition to the complete set described above, 180 yards of nylon thread and 3 spare needles. Wt. 7 oz. N202 \$3.25

EXTRA THREAD FOR SPEEDY STITCHER. Comes in 30 yard skeins: Fine Nylon N203 25¢
Heavier Nylon N204 35¢

EXTRA NEEDLES. N205 ea. 15¢

DOWN FILLING

Down Filling, in extra fill quantities, can be added to most models of Trailwise Bags at time of ordering. It is recommended that the extra fill does not exceed ½ lb., otherwise the down will pack without further gain of thermal efficiency. Additional filling in ½ lb. and 1 lb. units may be purchased at the following rates. Down comes packed in plastic bags.

Premium White Goose Down Grade AA 1 lb./\$16.00; ½ lb./\$8.50
Premium Gray Goose Down Grade A 1 lb./\$13.75; ½ lb./\$7.25

KODEL BATT

KODEL BATT. A polyester insulative fiber. Fiber is bonded with a light application of plastic spray to minimize lumping and slippage. Rated better than Dacron; has better loft because of bonding. 60" wide. 2 yd. Batt \$3.50
4 yd. Batt \$6.50

SLEEPING BAG, TENT AND CLOTHING MATERIALS

Samples available upon request.

FABRIC	Wt., Oz. Per Sq. Yd.	Water Repellent Coated	Water Repellent Treated	Width, Inches	Thread Count Per Inch	Tear Test In Lbs.	Porosity Cu. Ft. Per Min.	COLORS	USES	Price Per Lineal Yard
FIBERTHIN—50(N)	5	yes	—	50/51	—	10	nil	Grey	Rugged service use: Groundsheets/tent floors/tarps/rain clothing or Waterproof Uses. CN101	\$2.75
NYLSURF, Urethane coated	5.1	yes	—	45	108	50	nil	Black	Tent floors/stuffsacks CN106	2.75
NYLPORT, Urethane Coated	3.3	yes	—	44/45	112x90	3.2	nil	Beige	Raingear, tent floors. CN104	1.98
URETHANE NYLON DUCK	8.6	yes	—	40/41	62x46	45	nil	Sage Green, Red	Packs/Duffles CN107	3.50
REEVAIR (N)	3½	yes	—	44/45	135x66	7	nil	Royal Blue/Orange	Ponchos/Parkas/Tarps/Tents CN103	2.50
SUPERNYL (N)	2.5	no	yes	45	254	—	1.37	Blue, Red	Sleeping bags/down jackets/tents. PN112	1.60
RIPSTOP NYLON	2.27	no	yes	45/46	116x108	3.8	3.5	Tan	Sleep Bags/Down Clothing. RN119	1.85
TENAYA CLOTH (N)	1.5	no	yes	38	244	3	2.1	Blue, Red, Orange	Sleeping bags. PN113	2.00
ALPINE NYLON	2.4	no	yes	42/43	319	7	2.32	Orange, Green	Tents/parkas/wind proof clothing. PN108	2.35
CASCADE NYLON	4	no	yes	44/45	—	15	.75	Bronze	Tents/parkas/overboots/gaiters PN109	2.35
NYLON MESH	7.5	—	—	31	—	—	—	Sage Green	Mesh panels on pack frames. NM126	4.00
NYLON NETTING	1	no	no	36	—	—	—	Green	Mosquito doors/sleeping bag baffling. NN127	.75
HEAVY DUTY NYLON	6.5	no	yes	47	152	40	2.4	Spruce Green	Packs/pack frame back bands/cots. PN110	2.75
EXTRA HEAVY-DUTY NYLON	9.0	no	yes	50½	120	52½	2.3	Royal Blue	Packs/Duffles. PN110	2.75
ARMY DUCK (C)	10.1	no	yes	31	96	8	—	Spruce Green, Red, Blue	Duffles/packs/general use. C124	1.50
WHIPCORD DACRON/WOOL 16	no	no	60	—	—	—	—	Slate	Mountain Pants. DW128	8.75/yd
ELEMENT CLOTH (C)	5.5	no	yes	39/40	230	4	4.45	Red, Blue Charcoal /Yellow	Tents/parkas/sleeping bags/utility bags. C122	1.60
VENTILE (C)	5	no	yes	36	334	6	1.00	Blue, Orange, lichen green	Parkas/windproof clothing/tents. C121	3.75

Note: The above table, although incomplete, will serve as a guide. Under the column listing of FABRIC the letter (N) means NYLON, (C) means COTTON,

ENSOLITE TYPE M. A unicellular foam material noted for its insulating efficiency and shock absorbing quality. Will not soak up water like foam rubber. Recommended uses: padding under sleeping bags, insulation for any article of wearing apparel or shoulder pads. Available in full sheets 42"x56" or half sheets 42"x28". The sheets may be laminated with any good quality adhesive to form any thickness desired.

Thickness	Full Sheet	Half Sheet
1/8"	\$4.25	\$2.35
3/8"	\$10.75	\$5.75

VELCRO TAPE. A non-metallic tape that can be used more effectively than zippers for certain closure applications. By merely pressing tape together a secure draft free closure is obtained. Washable. Good holding power and long life. Colors: pale blue, green, charcoal and beige. ¾" width. Wt. per yard approx. 1 oz. 50¢/ft.

POLYETHYLENE SHEETING. Lightweight 4 mil gauge sheeting suitable for making your own emergency shelters, tarps, groundsheets, ponchos, etc. This sheeting comes 10 feet wide. Wt. approximately 2½ oz. per square yard. Price per running yard (30 sq. feet). .90

ZIPPERS

Pocket Zippers, closed ends with chain pull. 10" 22¢
7" 18¢

Non-Separating Zippers. Size #5. One end closed
10" SP, Locking Slider, Brass Teeth. 20¢
24" DP, Brass Teeth, 1½ oz. 40¢
30" DP, Nickel Silver Teeth, 1½ oz. 60¢
36" DP, Brass Teeth, 2 oz. 60¢
47" DP, Brass Teeth, 2½ oz. 70¢

Separating Zippers. Size #5. For Parkas, Sleeping Bags, etc.
26" SP, Locking Slider, Brass Teeth, 7 oz. 42¢
28" SP, Locking Slider, Brass Teeth, 1 oz. 42¢
72" DP, Nickel Silver Teeth, 4 oz. 1.20
100" DP, Brass Teeth, 5½ oz. 1.00
125" DP, Nickel Silver Teeth, 7 oz. 2.20
SP Single pull. DP Double pull.

WEB TIPS. Flat type. Can be set by hand (confine sides, and hammer tight), but are best set by use of dies. Nickel finish.
 3/4", N401 10 for 30¢
 1", N402 10 for 30¢
 2", N403 Each .08¢



WEB TIPS. Thimble type. Place thimble on end of web and hammer flat. No die needed. Bronze. For 1" cotton web. N404.
 Each 10¢



WEB STRAP BUCKLES. For use with heavy cotton webbing or similar material. Not too satisfactory with slick or light gauge nylon web.
 Nickel finish. 3/4", N405 10 for 45¢
 1" N406 10 for 55¢
 Heavy-duty: 1 1/2" Cadmium. N407. Each 30¢
 2" cadmium N408 ea. 45¢



QUICK RELEASE BUCKLE. Imported from West Germany. Torsional spring for fast release. For 1/2" leather or webbing; Crampon straps, Arlbergs, etc. N409. Each 25¢



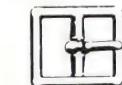
DOT RIVETS. Two-piece. Set with hammer. Strong, all-purpose rivet. N410. 20 for 65¢
 Box of 100. N411 \$1.75



SLIDE FASTENERS. For use with 1" webbing only. Lt. wt. nickel. N415 Each 5¢
 Heavy wt. bronze. N416 Each 8¢



LEATHER STRAP BUCKLES. Standard tongue roller-buckles. Nickel finish 5/8". N417,
 3/4". N418 Each 11¢



BAG SNAPS. Nickel finish. Single casting with spring steel clip.
 5/8", N419 Each 17¢
 3/4", N420 Each 17¢
 1", N421 Each 18¢

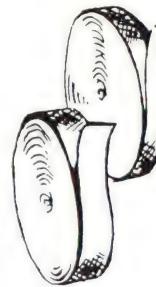


TASLAN NYLON AND DACRON THREAD.
 Three weights:
 Taslan/S23. For down clothing, sleeping bags. 4 oz. spool, 4300 yd. N223 \$3.00
 Taslan/S46. Slightly heavier weight. 4 oz. spool, 2025 yd. N246 \$3.50
 Dacron/D69. Heavy duty for tents and packbags. 8 oz. spool, 3000 yd. N269 \$5.50
 S23 and S46 available in Red, orange, olive, tan.
 D69 available in grey only.



WEBBING. Samples sent upon request. Light cotton webbing is suitable for reinforcing seams on tents, tarps, etc. Heavy cotton is necessary for pack straps, waist straps or other high strength webbing requirements. O.D. or tan color as available.

Heavy Cotton, 1" OD. HC100 foot/9¢
 1 1/2", HC112 foot/12¢
 2" OD for shoulder straps, waistbands. HC200 foot/12¢
 Light Nylon. 5/8" for strain points on seams, etc. LN916 foot/5¢
 Medium Nylon. 1", OD MN100 6¢/foot
 3/4" white MN034 4¢/foot
 Heavy Nylon. 2" for waistbelts. HN200 foot/20¢



DEE RINGS. Nickel plated types are split; aluminum types are unsplit stampings. Dimensions given are inner diameters.

Nickel-plated. 1/2", ND012 10 for 35¢
 5/8", ND058 10 for 35¢
 3/4", ND034 10 for 35¢
 1 1/2", ND150 10 for 45¢
 Aluminum. 1/2", ND912 10 for 35¢
 3/4", ND938 10 for 35¢
 7/8", ND978 10 for 52¢

ALUMINUM ROUND RINGS. Measurement given is inner diameter of ring.

3/8", NR038 10 for 35¢
 1/2", NR012 10 for 35¢



NEEDLES. Five special purpose needles. Mattress needle, carpet needle, sail needle, packing needle and glover's needle. Rust proof. Wt. 3/4 oz. N207 39¢



RIP-STOP REPAIR TAPE. 2" x 25 ft. length of Zeta Nylon cloth with adhesive on one side. Quick repair for rips in clothing, tents, sleeping bags, etc. No heat required. Specify red, blue or green color. 5 oz. \$2.50
 Per foot. RN900 15¢



SEAM SEALANT. Coating will last lifetime of garment and will not crack or peel. Adheres to most fabrics and vinyl when applied to clean surface. Brush on, dries quickly. Clear. 4 oz. can. N901 \$1.60

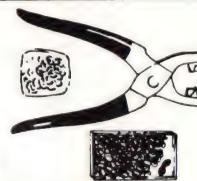


ARIDEX. Wax emulsion. Mix with water and warm. Immerse garment or fabric in solution and iron while damp. Makes 2 1/2 gallons of reusable solution. Packed in reusable plastic container. Wt. 1 1/4 lbs. N904 \$1.75

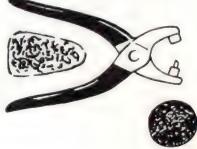


BITS & PIECES

SNAP FASTENER KIT. Includes setting pliers and 8 snap sets. 5 1/2 oz. N303 \$1.49
 16 refill snap sets. N304 59¢



EYELET TOOL KIT. Includes plier tool that spots holes, punches holes and sets eyelets; 150 assorted eyelets. 5 1/2 oz. N305 \$1.49
 100 refill rustproof eyelets. N306 30¢



GROMMET SETTING KIT.* Complete equipment for setting grommets, including setting die, heavy duty hole punch, cutting board, 48 plain grommets and instructions. Weight 1 1/2 lbs.

Size 0 Grommet, 1/4" hole. N310 \$3.60
 Size 1 Grommet, 5/16" hole. N311 \$3.80

*Will not set Spur Grommets.

GROMMETS WITH WASHERS. Plain grommets are lightweight brass, suitable for most purposes. Spur grommets are heavier, have gripping teeth, can be set in webbing, etc. Plain grommets, size #0 (1/4" hole) or #1 (5/16" hole). Box of 144. N350 \$1.50
 Spur grommets, size #0 (1/4" hole) or #1 (5/16" hole). Box of 144. N351 \$3.50

Plain Grommets. #0. N352 50 for 75¢
 #1. N353 50 for 95¢

Spur Grommets. #0. N354 50 for \$1.85
 Setting Dies for Spur Grommets.

Size "0". N320 \$5.00
 Size "1". N321 \$5.50

Hole punch. Specify size and type of grommet for punch to be used. N370 75¢



PLASTIC RUBBER. Neoprene rubber in squeeze tube. For rubber and fabric repairs. Also good for sealing the edges of boot soles against water. Rustproofs, waterproofs, insulates and cements. Colors: White or Black. Wt. 4 oz. N900 \$1.00



GACO. Real neoprene rubber in liquid form. Can be brushed on to metal, canvas, wood, or rubber. Excellent for painting over broad areas that must be sealed against leakage. Cures to a tough and durable elastic film. Color: grey. Wt. 4 oz. N902 \$1.20



RAIN-DRI Instantly waterproofs tents, clothing, sleeping bags, shoes, convertible tops, etc. Easy to use, harmless and quick drying. Colorless. Withstands several washings. Comes in spray can. Net wt. 16 oz. Shipping wt. 20 oz. N905 \$1.98

RUCKSACKS • PACKS • DUFFLES



BERGANS SVIPTUR. Especially for skiers, rock climbers, and for those who want a sturdy small pack. This pack sits well and steadily on the back. Made of same quality strong canvas found in all Bergans sacks. Chrome leather shoulder straps and trim. Zipper opening at top. Outside pocket has a zipper under the flap. Colors: grey, red and navy. Wt. 1 lb. 4 oz. Dimensions of main sack: 18" high, 13" wide, of outside pocket: 9" x 12" R301 \$12.50

TRAILWISE KNAPSACK. Popular knapsack of water repellent canvas. Two outside pockets are closed by zipper. The main flap is held closed by a bag snap. Web shoulder straps are adjustable. Fastenings are riveted plastik bottom. Felt padded chrome leather and leather reinforced. The sack has a draw cord of top for closure. Adjustable waist strap. Choice of color: red, pearl grey or green. Please state second color choice. R501 \$5.50

BAVARIAN PACK. Made in Germany. "D" shaped bag 12" x 5" x 13" high mounted on $\frac{3}{16}$ dia. wire frame. Outside boxed pocket (7" x 7" x 2 $\frac{1}{4}$) with zipper. Tough straps are adjustable. Fastenings are riveted plastik bottom. Felt padded chrome leather and leather reinforced. The sack has a draw

shoulder straps. Well tailored. Color: Bright blue. Wt. 2 lb. R503 \$10.95

BERGANS MODEL 27. A popular lightweight rucksack for day trips. Sack size 12" x 14" x 5". Outside center pocket 12" x 8" x 2 $\frac{1}{4}$ ". 2 side pockets 4" x 10" x 1 $\frac{1}{2}$ ". Lightweight frame has broad top and extends under bottom of sack for protection of sack. Bergans quality canvas and chrome leather attachments. Wt. 2 $\frac{1}{4}$ lbs. R302 \$15.00

ZIPPER DUFFLE BAG. Features wrap around web strap handles, eliminating localized pull on canvas. Dust flap under zipper. Web strap handle sewn on one end. Army Duck Colors: Red or Spruce Green. Size 14" x 29" Wt. 1 lb. 10 oz. R119/c..... \$6.50



BERGANS #727 NYLON. A new model which combines for the first time the famed Bergans durability with new nylon-aluminum construction, for a saving in weight of 2 lb. over the equivalent Bergans with the old steel frame and canvas bag. This convenient day-tripper has one large outside pocket; is made of olive nylon duck with waterproof bottom; and has a rectangular aluminum frame, 18 $\frac{1}{2}$ " high. Weight 2 lb. R304

\$22.50

BERGANS 'GIANT' RUCKSACK. Broad contour frame permits load to be carried high, yet close to the back like a well designed contour pack frame. Rides exceptionally well with bulk of load transmitted to the hips. Two outside pockets and a partition wall inside which aids in packing heavy articles at top and close to back. Bergans quality throughout; superior grey canvas and chrome leather attachments. The best rucksack for the heavy loads. 19" high frame; 4 $\frac{3}{4}$ lbs. R305 \$27.50

BERGANS MODEL 186 RUCKSACK. World famous, the Model 86 sets the standard for fine rucksacks. Strong canvas sack mounted on a tubular steel frame. Three outside pockets with flaps bound with soft leather. Large outside pocket has zipper closure on inside of main flap. Shoulder straps are soft chrome leather which retains its shape after years of use. Grey color; three frame sizes. Men's 17". Wt. 4 lb. R303 \$25.00 Scout's 16". Wt. 3 $\frac{3}{4}$ lb. R303 \$25.00

LA FUMA SKI-MOUNTAINEERING PACK. Genuine leather bottom and attachments. Equipped with hauling ring and complete with straps for carrying ice axe and crampons. There is also provision for carrying skis through tunnels under side pockets. The strong canvas sack is attached to a light, flexible frame. Color is tan. Sack size 18" x 4 $\frac{1}{2}$ " x 22" high. Complete with waist strap. Wt. 4 $\frac{1}{2}$ lbs. R504 \$29.75

BERGANS #757 RUCKSACK. Week-end six rucksack (capacity about 25 lbs.) embodying Bergans ruggedness with the lightness of nylon duck sack and an aluminum frame. Sack is widest at the top; cut for ideal weight distribution. Waterproof bottom; A shaped aluminum 19" frame. Two large outside pockets. Weight 3 lb. R306 \$33.95



TRAILWISE SKIER'S BELT BAG. Combines the most desirable characteristics of lightness, strength and waterproofness. Made of Urethane coated Nylon Duck, with adjustable belt of nylon web. Side zipper opening for best protection against snow or rain. Seams have white piping and bag is contoured to fit body. A very handy bag for ski or hiking accessories; camera, lunch, wax, goggles, etc. Colors: Sage Green or Red. Size 12½" x 4½" x 4½". 6 oz. R118 \$7.95



BURRO WATERPROOF DUFFLE BAG. This bag is of the recommended size and design for Burro packing. Also ideal for river trips or travel in wet country. Made of OD rubberized cotton fabric. All seams are sealed. Draw cord closure. Round bottom. 15" x 30". Wt. 17 oz. R511 \$1.75



STUFF BAGS. Made of lightweight, coated, waterproof nylon. Draw cord closure. Round bottom. An assortment of sizes for stuffing or travel in wet country. Made of OD of different size sleeping bags, apparel, etc. R120/718. 7" dia. x 18" long. 1½ oz. \$1.75
R120/918. 9" dia. x 18" long. 1½ oz. \$2.50
R120/921. 9" dia. x 21" long. 2 oz....\$2.75
R120/1121. 11" dia. x 21" long. 2½ oz. \$3.00
R113 \$2.95



NYLON BELT POUCH. A very convenient item to carry on all outings. Allows immediate access to snacks, glasses, first-aid material, cosmetics or whatever. Made of very strong Urethane coated nylon duck; a fabric that is waterproof, longwearing and light. Nine-inch zipper with pull tabs at ends, and belt loops for attachment. Measures 4½" x 7½" x 2". In Red or Sage Green. Wgt. 2 oz. R119/n. 14" x 30". 19 oz..... \$11.50



TRAILWISE NYLON ZIPPER DUFFLE. Strong, light and waterproof; this handsome duffle is made of a Urethane coated heavy Nylon Duck. Full length nickel-silver zipper; white piping on seams; generous dust flap under zipper and wrap-around nylon webstrap handles to eliminate localized strain of fabric. Handle on one end. Colors: Sage Green or Red. Two sizes. R119/n. 14" x 30". 19 oz..... \$11.50



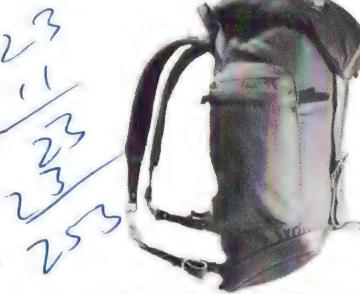
TRAILWISE TOURING PACK. Medium capacity pack for those who travel light on weekend tours or knapsack trips. A square pack with narrow profile that rides close to the back. Made of tough Urethane coated Nylon Duck. Full bottom of chrome tanned leather, two large outer pockets, axe carrier, hauling loop, accessory strap patches, waistband and ensolite padded shoulder straps. Measures 18" x 7" x 10½". Wgt. 19 oz. R101 \$19.50

TRAILWISE MOUNTAIN PACK: Lightweight tapered sack ideal for rock-climbing, skiing, or for a day's outing. Pack is divided into an upper and lower compartment, each with a zipper closure. Full bottom of water repellent chrome-tanned leather. Sack is of waterproof heavy-duty Urethane coated nylon duck. 2" wide nylon shoulder straps with adjustment. Has ice axe and hauling loops and accessory strap patches on bottom. Colors: Sage Green or Red. Bottom measures 6½" x 13". Height 16". Wgt. 14 oz. R102 \$15.50

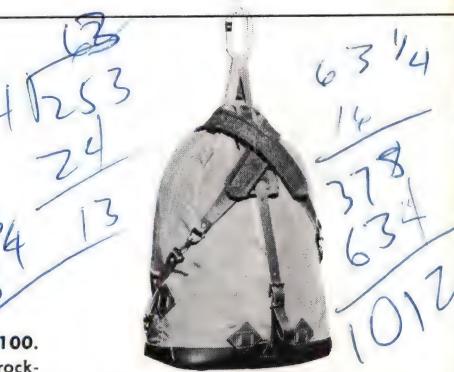


ALP SPORT ROCK CLIMBER'S STANDARD. MOD. 80. This teardrop shaped pack has a ten to fifteen pound capacity. The pack is narrow at the top, allowing free arm and shoulder movement. Its trim shape, with no outside pockets, prevents hangups in close quarters. The two compartments, each with a "Wing Sweep" zipper, allow you to distribute the load evenly. Pack is 16 inches high. The rectangular leather bottom, which slants slightly upward away from the back, measures 5½ by 11½ inches. Nylon waist strap extends to 41 inches. An ice axe carrier, 2 accessory strap holders and a nylon hauling handle are all installed on pack. Nylon Duck. 22 oz. R201 \$15.50

MOD. 90. Same design and shape as the above pack, but on a larger scale. Holds almost twice as much! Bottom 13½" x 6½". Height 18". Waterproof urethane nylon duck. Wt. 24 oz. R202 \$17.50



ALP SPORT EIGER STANDARD. MOD. 100. For overnight hikes and extended rock-climbs; capacity about 30 lbs. Anyone who packs light should need no more than this pack, which is marvel of subtle design—for comfort and toughness—without parallel to our knowledge. Both bottom and top are raked upward to prevent sagging of the load. Removable aluminum stays can be bent to conform to your back. The 7" x 14" bottom is of the finest leather; the shoulder straps are leather, padded with felt. The pack is 19" high, with two side pockets 5" x 10" x 2½", and a lid-pocket 11" x 12" x 3". Made of 8 oz. urethane-coated waterproof nylon duck throughout, with heavy-duty nylon pocket zippers. Wt. 29 oz. R203 \$25.50



ALP SPORT YOSEMITE SPECIAL. MOD. 130. Here at last is the answer to hauling problems on long rock climbs. The Yosemite Special is specifically designed for hauling with the least possible danger of having the pack hang up on the rock. Pack is tubular, assuming a bullet shape when closed. Nylon web straps on each side form a loop at the top to which a hauling line is attached. Pack is reinforced with nylon web and has a durable double bottom of nylon duck and leather.

The Yosemite Special can be carried in complete comfort as a regular pack. It is 21 inches high with a 7 x 13 inch bottom. There are two interior side pockets 10" by 4½" by 2½", and a rear pocket 9" by 15" by 2" to provide for padding against the back. Comes complete with 2 strap holders and a non-catching ice axe carrier. No waist strap. Waterproof urethane nylon duck. Wt. 31 oz. R205 \$20.00

PACK FRAMES A BUYERS GUIDE

• A PACKFRAME IS FREEDOM IN THE MOUNTAINS

We think that the contoured aluminum packframe has been responsible for the recent healthy upswing in family back-packing. Immense new areas of wild country are now opened up to the backpacker, who, with an eminently manageable and compact load, lopes along or dallies at will, covering miles of ground with the serene enjoyment of being entirely self-sufficient. Aching muscles and a burro-like resignation to a swaying and ungainly load become a thing of the late and unlamented past.

• HOW PACKFRAMES WORK

First, consider that the human frame did not evolve for the purpose of carrying heavy loads on the back! Quite strong from the hips on down, the human body is a frail compromise with evolution above the hips. The result is a heritage of back trouble unknown to the lower animals, who carry their weight swung from two points, at either end of the spinal column. In walking erect, we have imposed the full weight of our bodies on one point—the base of the spine. A heavy load carried directly on the back puts a great strain on the spinal column, causing the weight to be taken up by the shoulder, neck, and back muscles, a source of great fatigue. Trailwise packframes have been designed around the principle that the greater part of the load must be borne by the hips. The rigid contour frame with waist belt is simply a mechanical way of transferring the weight from high on the back (the best point of balance) to the hips—where the inherent strength of the hips and legs is best able to bear the load.

The waist belt must be considered an essential part of any packframe. Trailwise waist belts are unique in that they wrap entirely around the waist—not just around the front—providing continuous support at every point, and, incidentally, eliminating undue pressure on the front of the hips, normally a cause of some chafing and soreness.

• WHO NEEDS A FRAME?

Chances are that you do if the equipment you normally pack for a weekend weighs more than about 25 lbs. While the frame restricts the free-and-easy swing of the shoulders and hips just a bit, it rapidly compensates in comfort and lessened fatigue. The use of the very best in down bags, aluminum cookware, etc. will keep the load well below 25 lbs.; however, the backpacker with side interests, such as fishing, photography, or climbing may find that his specialized gear quickly exceeds the limits that can be comfortably carried in a simple rucksack.

• WHAT ABOUT COST?

The Trailwise Frame and Packbag, in the price range from \$39 to \$46, will repay the investment in sumptuous comfort and durability to anyone spending several days every year in the mountains or desert. The Cruiser Frame and Packsack, from \$19 to \$30 serves the needs of the occasional backpacker; the novice backpacker (who is still in the experimental stages of taking up this activity); or the growing child. (The Medium Cruiser frame will fit a growing lad over five feet tall at very little expense.) We strongly recommend the optional waist belt R110 with all Cruiser frames.



KIDDIE PACK

A deluxe carrier. Frame is tubular aluminum and carrying sack is of Royal Blue Duck. Seat height is adjustable with storage area under the adjustable inner seat. Shoulder straps are nylon with foam padding. 3" wide nylon backband. Backband transmits large part of load to hips and keeps carrier positioned to allow adequate ventilation. Wgt. 20 oz. R811

KIDDIE SEAT Same as above, but main carrying sack does not have adjustable sling seat built into it. Nylon shoulder straps without padding. All other features of construction are similar to above carrier. These carriers are suitable for children up to a maximum of 35 or 40 lbs. Wgt. 16 oz. R810 \$11.00
Carseat Adapter Strap. Will fit either of the above carriers. Frame of carrier snaps in and out leaving adapter strap in car and out of way. Wgt. 3 oz. R820 \$3.50

SIX-PACK. Extends the useful life of the above child carriers after the kids have grown. Roomy 8 oz. cotton duck packsack fits easily on the aluminum frame when the canvas child-carrier is removed, providing a good week-end size pack. Two zippered compartments. Wt. 10 oz. R813 \$9.95

CRUISER CONTOURED ALUMINUM FRAME WITH DETACHABLE SACK.

Low cost serviceable model aluminum frame with welded joints. Shoulder straps are 2" wide, padded, and nylon-covered. Back bands are 4 1/2" wide, of heavy cotton duck. This frame is superior in comfort to any other frame in its price range that we know. Two sizes: Large, for people over 5'5"; Medium, for those under 5'5". Weight: 34 oz. Large Cruiser Frame: R400/L \$11.00
 Medium Cruiser Frame: R400/R \$11.00

Cruiser #440 PACKSACK. Made of durable cotton duck, khaki in color. Two side pockets and one back pocket with tie-down cords. Sack fits on Cruiser frame in seconds. Two sizes fit the equivalent frame size:

Large #440 Packsack: 14" wide, 22" high, 7" deep. Wt. 20 oz. R401/L \$8.00
Regular #440 Packsack: 14" wide, 18" high, 6" deep. Wt. 18 oz. R401/R \$8.00



CRUISER SKYLINE PACKSACK. Offers all the conveniences of a top-line packbag, and fits in seconds to the Cruiser Frame. Made of waterproof, mildew-resistant Urethane-coated nylon duck. Four side pockets, large back pouch, and a map-pocket; plus partition inside the pack—all with zipper access for easy distribution of your gear in an optimum way. Spreader bar holds pack open at the top and keeps load from sagging. Color: Green or Red (same as Trailwise Packsacks, next page.) Large Skyline Packsack: 15" wide, 22" high, 8" deep. Wt. 27 oz. R402/L \$19.95

Medium Skyline Packsack: 15" wide, 18" high, 7" deep. Wt. 25 oz. R402/R \$19.95



CONTOUR FRAME. Bare aluminum (alloy) frame without any attachments except plastic caps on ends. State regular or large. Wt. 1 1/4 lbs. R122 \$10.00

HEAVY-DUTY WAIST BELT. Eases shoulder loading by transferring bulk of weight to hips. Made of heavy 2" nylon web strap, with 5 1/2 oz. Specify size: R108/L for Large frames, R108/R for Reg. or Small frames \$2.25

SHOULDER YOKE ASSEMBLY. Fully padded with 3/8" ensolite and outer material is nylon duck. Includes all fastenings. Wgt. 10 oz. R103 \$8.00

CLEVIS ATTACHMENT. For attaching 1" straps to 3/4" tubing. Complete with pins and keeper rings. One pair, wt. 3/4 oz. 70¢

NYLON MESH BACK. Strong gauge nylon mesh reinforced along edges with solid nylon fabric. Grommets installed along edges and corners for lacing to frame. Lace included. Two sizes:

Large (to fit Large Trailwise, or similar frame) 12" x 17"; wt. 3 1/2 oz. R104/L \$4.95

Regular (to fit Reg. or Small Trailwise frame) 10 1/2" x 15"; wt. 3 oz. R104/R \$4.95

SHOULDER PADS. 3/8" thick ensolite: firm, comfortable padding covered with nylon duck. For straps up to 2 1/4" wide. 10" long; wt. 1 1/2 oz. R107 pair \$1.95

PADDED SHOULDER STRAP ASSEMBLY. 2 1/2" wide shoulder straps that are padded with 3/8" ensolite. For Trailwise frames or can be adapted to other frames of suitable size and type. 1" web from pad to point of attachment at frame bottom. Grommet at top of pad for attachment to frame. Complete with slide adjusters and pins and keeper rings. Overall length of assembly is 32". Padded section 12" long. Wgt. 5 oz. pair. R106 \$4.25

U-SHAPED TUBULAR SUPPORT BAR. Aluminum tubular bar for use with our Model 72, 87 packbags. Attachments included. Specify Reg. or large. Wgt. 2 oz. R105 \$1.50

ELASTIC SHOCK CORD LOOP. For attaching sleeping bag case to frame on Model 87 pack. Wt. 1 1/2 oz. R117 50¢

ALUMINUM EYE BOLTS. 10-32 thread



CONTOUR FRAME MODEL 500. This lightweight contoured frame is made of high quality aluminum alloy tubing with all joints welded. The contour conforms to the back and keeps the loaded frame close to the body. The extended height of the frame makes it possible to carry the load high and forward, a feature of utmost importance in hiking upgrade. The 3" wide shoulder straps are padded with $\frac{3}{8}$ " ensolite in a nylon casing. They are fully adjustable. The full mesh nylon back support conforms for smooth distribution of pressure, yet has the advantage of being well ventilated. Each frame comes with an adjustable heavy-duty nylon waist strap. Two sizes:

CONTOUR FRAME MODEL 502. This model has an Ensolite padded yoke which gives a very good weight distribution across shoulders and neck. The cushioned yoke reduces the localized pressure on shoulders inherent in all ordinary shoulder strap suspensions. In addition to the adjustable yoke, other features include the full mesh nylon back and the Nylon Heavy Duty Waist Belt (see description under pack frame parts') which transmits nearly entire load to hips when desired. Two sizes:

YOUR HEIGHT FRAME SIZE	TRAILWISE FRAME	MODEL 500	...WITH #72 BAG		...WITH #87 BAG		MODEL 502	...WITH #72 BAG		...WITH #87 BAG	
			\$21.00	\$42.00	\$39.00	36 oz.	3 lb.	3 lb.	\$25.50	\$46.50	\$43.50
5'0" to 5'6"	Small 14 $\frac{1}{2}$ " x 27 $\frac{1}{2}$ "										
			\$21.00	\$42.00	\$39.00	38 oz.	3 lb.	3 lb.	\$25.50	\$46.50	\$43.50
5'6" to 5'9"	Regular 14 $\frac{1}{2}$ " x 29"										
			\$21.00	\$42.00	\$39.00	40 oz.	3 lb.	3 lb.	\$25.50	\$46.50	\$43.50
5'9" to 6'4"	Large 16" x 30 $\frac{1}{2}$ "										
			\$21.00	\$42.00	\$39.00	42 oz.	4 lb.	4 lb.	\$25.50	\$46.50	\$43.50

CUSTOMERS WHO FALL "BETWEEN SIZES" MAY WANT TO TAKE INTO ACCOUNT WHETHER THEY ARE SHORT- OR LONG-WAISTED.

CONTOURED PACK FRAMES



TRAILWISE PACK BAG MODEL 72. Single spacious sack, roomy enough to hold all your gear, including sleeping bag, clothing, food and other necessities for an extended wilderness outing. The four side pockets are 2 $\frac{1}{4}$ " x 6" x 9" and the outside center pocket 3 x 7 $\frac{1}{2}$ x 10". A patch type map pocket that measures 7 $\frac{1}{2}$ " x 10" is located on outside of flap. All pockets have nylon zipper closures. The sack is made of heavy-duty Urethane coated nylon; a durable and waterproof fabric. Colors available are Red or Sage Green. Easy access to the sack is effected by an aluminum tube frame that holds sack open at top. Three sizes:

Pack Bag 72L. (Fits Large Frames.) Bag measures 10" deep x 14" wide x 25" high. Weight 1 lb. 7 oz.
Pack Bag alone.....\$21.50

Pack Bag 72R. (Fits Regular or Small Frames.) Measures 8" deep x 13" wide x 24" high. Weight 1 lb. 5 oz.
Pack Bag alone.....\$21.50

TRAILWISE PACK BAG MODEL 87. Designed to carry sleeping bag below main sack. Sack itself has two main compartments. The upper compartment is accessible from the top whereas the lower compartment is accessible through the 12" wide zipper opening. Two side pockets; each measures 2 $\frac{1}{4}$ " x 6" x 8". All zippers are brass. A frame made of aluminum tubing holds main sack open for easy loading. The sleeping bag stuff bag is held in place by a single loop of very strong nylon shock cord. Main sack and stuff sack are made of heavy-duty Urethane coated nylon—tough and waterproof. Colors: Sage Green, or Red. Three sizes:
Pack Bag 87L. (Fits Large Frames.) Bag measures 9" deep x 14" wide x 19" high. Stuff bag measures 8" x 17". Wt. 1 lb. 6 oz. Pack Bag alone.....18.50

Pack Bag 87R. (Fits Regular or Small Frame.) 8" deep x 13" wide x 16" high. Stuff bag measures 8" x 17". Wt. 1 lb. 4 oz. Pack Bag alone.....\$18.50

TRAILWISE DOWN BAGS

*For your protection the State of California has an unusually strict code for down filling. When you receive a bag with the California Certification label attached you may be sure that the down filling materials meet the State code. In Trailwise bags we make every effort to supply fillings well above the State required minimums.



TRAILWISE SLIMLINE BAG

Form fitting bag designed for the greatest economy of weight and space. Especially recommended for the lean mountaineer, hiker or back packer who must keep weight and bulk to a minimum. The basic design elements consist of two concentric tapered shells (Differential cut), connected to each other by Chevron Baffles of nylon mesh. The differential cut gives the highest possible loft of the Grade AA White Goose Down filling and the Chevron Baffles stabilizes the down more effectively than any other type of baffling yet developed. The Slimline Bags have adjustable drawcord hood and are made of Tenaya Cloth in color choice of Red, Blue, and Orange. This bag will keep the average person warm for normal summer temperatures in the high mountains. Use of a cover and thermal underwear will increase efficiency so that the bag can be used for winter trips in comfort.

ZIPPERS. A 72" nylon side zipper can be ordered for the Slimline, whereby it is made adaptable to a wider variety of conditions, but adds 2½ oz. of weight to the bag. Zippers can be installed on the Right side only (viewpoint of occupant).

Model 901. Will fit persons up to 6' tall, weighing about 175 lbs. or less. Circumference at shoulders is 54"; at foot, 36". Filling is Grade AA White Goose Down. Packs into waterproof carrying case 7" x 18".

Model 901: 24 oz. fill. Wt. 2 lb. 6 oz. \$190.....\$64.50
With 72" nylon zipper.....\$67.50

Model 941: Designed for persons up to 6' 3", weighing about 190 lbs. or less. Circumference at shoulders is 58"; at foot, 36". Packs into a waterproof case 7" x 18". Filling is Grade AA White Goose Down.

Model 941: 26 oz. fill. Wt. 2 lb. 9 oz. \$194.....\$69.50
With 72" nylon zipper.....\$72.50

SLIMLINE COVER AND PAD. Extends range of Slimline bags to include low winter temperatures down to zero F. Cover has waterproof bottom of Nylport and top of lightweight nylon. Pocket to accept Nylport covered 2" thick, foam pad; size 20" x 30". Sleeping pad has superior insulation and comfort qualities as compared to 48" air-bed. Cover choice is zipperless or with 30" side zipper. Specify also whether for Model 901 or 941. Cover and Pad. 1 lb. 10 oz.....\$19.75
Cover only. 9 oz. \$113 \$12.95 Pad only. 17 oz. \$112 \$6.95

THE HAZARDS OF TEMPERATURE RATING—AN OBJECTIVE REPORT. Trailwise sleeping bags are not given an exact temperature "rating" in this catalog. We hope that you will weigh the factors given below in considering the purchase of a Trailwise bag. What is loosely called the "warmth" of a sleeping bag depends upon two things:

(1) **The rate at which the body produces heat** to warm the inside of the bag. This is the slippery one to figure, for these reasons:

(a) **The Metabolic Rate**, different for each person, determines one's heat-producing capacity. Thus, in identical bags, one camper may feel cold, another will slumber comfortably.

(b) **Variation in tolerance to cold.** Many experienced outdoorsmen can sleep well, even prefer to sleep, when not quite "warm as toast." One's wife may not agree with this spartan way of thinking!

(c) **An exhausting trek** into a campsite followed by insufficient nourishment at dinner reduces the ability of the body to produce heat. Conversely, a meal rich in carbohydrates and fats stimulates the heat-producing of the body, conducive to warm sleep.

(2) **The rate at which heat is dispelled through the insulating layers** to the outside. The **thickness** of the bag is most important. Wind velocity and humidity changes during the night will also affect the insulating ability of a sleeping bag, causing the sleeper to become warmer or colder. A **cover** or a **tent** will increase the comfort range of a bag at least 10°F; A double-walled tent may be 20°F. warmer inside than out. If you carry a tent, then, you will be comfortable in a lighter bag.

A DISSERTATION ON DOWN. The best grade of down currently available is Goose Down from Canada and Northern Europe, where climatic conditions, food, and method of plucking from mature birds combine to yield down of superior quality. Goose down is still the only material having the optimum characteristics of **loft** (ability to occupy space, and trap air within), **lightness**, and **compressibility** that are essential to the manufacture of lightweight, efficient sleeping bags. Contrary to widespread opinion, Grey Goose Down is not particularly less "lofty" than White Goose Down. Both kinds are processed from the same stocks; the resultant difference in loft is, at the most, about 10%. **TRAILWISE** uses two grades of down: **Grade AA White**, as used in the Chevron and Slimline Bags; **Grade A Grey**, as used in all other down bags and down-filled clothing.

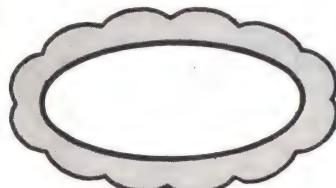
WHY CHEVRON BAFFLING. We all agree that down is the best ingredient to use for warmth and efficiency in sleeping bags. For years it has been our pleasure at **TRAILWISE** to fill our sleeping bags and garments with this fine product of nature. Our admiration for this marvelous fill, however, has not made us blind to the fact that down is a wayward and slippery rascal as well. To pin down in place so that it does its work effectively at every point depends

(cont. next page)

entirely on the baffling system: The more friction that a baffle can offer to impede the shifting of down, the more effective it will be; **hence the Chevron Baffle**. Simply stated, the Chevron Baffle insures that the down can only shift a minimal distance along the tube before it encounters another baffle across its path. The baffling material is **nylon netting** which offers maximum sliding friction to retard movement of the down.

THE DIFFERENTIAL CUT

The efficiency of bag is measured by its loft or fluffiness. The differentially cut bag allows the down to loft properly because the inner shell cannot press against the outer shell around the entire periphery. This is important for close fitting bags and this feature is found in the Trailwise Chevron, Trailwise Norland, and Slim Line Bags.



TRAILWISE CHEVRON BAG

This bag has proven itself a winner in the frozen regions of Alaska as well as in the higher reaches of the loftiest mountains of the world. Nothing was spared in its design, construction or use of materials to make it the paragon of all bags. The shell is of Blue Tenaya Cloth; this material is light, downproof, water repellent and extremely durable. It has a luxurious feel and will give years of service. The Differential Cut, which allows the 2½ lbs. of Grade AA Premium White Goose Down filling to loft a full 8½", provides for maximum thermal efficiency. (See explanation of Differential cut). The 4½" deep Chevron Baffle, made of strong nylon mesh, is slanted a full half tube width. The Chevron Baffle, which in itself is the most effective method yet developed for the stabilization of down, is even more effective when sewn in on a slant. Efficient contour design whereby widest part of bag is at shoulders and elbows. Roomy flared foot section. 30" Nylon

side zipper sealed from drafts with 3" wide down-filled draft flap. Draw cord hood closure. One size for persons up to 6'2". French Blue Color. Waterproof carrying bag included. Wt. 4 lbs. 4 oz. \$104.....\$107.50
With full-length 72" nylon zipper. (Allow two weeks for delivery.)
\$104/72\$109.50

DOUBLE MUMMY

This bag will accommodate two persons comfortably. It has certain advantages over two singles zippered together as a double because of less weight, less bulk, lower price but superior individual thermal control. Yet by itself this Double Mummy Bag is not too large or heavy to be used as a solo bag on occasion. The covering is made of Ripstop Nylon for lightness and durability.

The Chevron baffles are made of nylon netting. The bag tapers from 49" at shoulders to 35" near bottom and then flares out to a roomy foot section. Each side has a 72" zipper well protected against drafts by 2" down filled draft flap. Two independent draw cord hoods offer excellent individual thermal control. The center section at top may be sealed against drafts entering at shoulders by use of the Velcro Closure Tape and snap fasteners. This bag should keep persons possessed of good circulation warm down to 10°F. Filled with 4 lbs. Grade A Gray Goose Down. Will fit persons up to 6'2" tall. Total wtg. 6 lbs. 8 oz. Color: Blue. \$108.....\$128.50



HOSTELER

A low-altitude bag designed for those who want an inexpensive down-filled bag that will also be light in weight, able to take rough usage, and serve a variety of purposes. We feel this bag is eminently suited to the Summer backpacker, climber, cyclist and for Winter use in lodge or hut. This bag is fully baffled. Tubes run across the body of bag and nylon mesh is used to keep shifting of down to a minimum. There are no stitched through seams. Fits persons up to 6' tall; fill is 20 oz. of Grade A Grey Goose Down; 30" side zipper side left only (occupant's view). Fabric is long-staple Egyptian cotton—Green only. Stuff bag included. Wgt. 3 1/4 lbs. \$105.....\$39.95

YOUTH'S KODEL BAG. A fine mummy style bag for the young camper up to 5' 2" tall. Shell is of tough Nylon Taffeta in gay colored print (colors as available). Fill is 2 lbs. of KODEL—a synthetic fiber—superior to Dacron for insulation and non-matting qualities. Non-allergenic and easily cleaned. Drawcord will close hood snugly around head and neck. 30" center zip. 24" wide shoulder. Total wgt. 3 lbs. \$102.....\$26.50

ADULT'S KODEL BAG. Adult mummy style bag that will accommodate persons up to 6'2" in height. Shell is of tough nylon taffeta, filling is 2 lb. 11 oz. of KODEL, a polyester fiber superior to Dacron in insulating and non-matting qualities. Non-allergenic and easily cleaned. Drawcord will close hood snugly around head and neck. 30" center zipper, 24" wide at shoulders. Total weight 4 lb. 4 oz. \$103.....\$31.50

CHILDREN'S KODEL & DOWN BAGS P-48



TRAILWISE CONVERTIBLE DOWN COMFORTER

Converts from an elegant down filled comforter into a highly efficient, snug rectangular sleeping bag. Beautifully tailored to fit a double bed when open (finished size 86" x 78"). The outside shell fabric is Supernyl, a long-wearing but light and luxurious Nylon.

The comforter is further held in place at the foot of the bed by tailored corners. There are no stitch through seams; the comforter is baffled with strong nylon mesh in the Chevron pattern which is the most efficient method of baffling yet developed for the prevention of shifting of down. The filling is 2 1/2 lbs. of 100% Grade A Prime Northern Grey Goose Down. Conversion of the comforter into a rectangular bag is done easily by joining the Velcro-taped edges. Color: Sky Blue. Weight 5 3/4 lb. \$107.....\$86.50



DOWN-FILLED FOOTSACK. When mated with the Trailwise down-filled parka the combination will serve as an emergency sleeping bag, or some may prefer to use this combination for an entire outing, thus saving weight while providing versatility. This half-bag is fully baffled; is cut higher in back than front to assure coverage in sitting position and has drawstring at top. Made of Blue Tenaya Cloth and filled with 14 oz. of Grey Goose Down. With waterproof stuffsack. Weight 1 lb. 12 oz. \$106.....\$35.50

WATERPROOF BIVOUAC SACK. Use with or without 1/2 bag pictured above. Cut long enough to come above waist. Coated nylon. Wgt. 6 oz. A121.....\$6.00

TRAILWISE MUMMY BAG COVERS

To fit all Trailwise Bags. Cut fuller than bags to allow for full loft of down. Water repellent Element Cloth on top with waterproof Coated Nylon on bottom and part way up sides. 30" noncorrosive nickel-silver side zipper. Draw cord at hood. Specify preference for left or right hand zipper.

For Model: 84 Bags. S114.....Wt. 1 lb. 3 oz. \$15.25

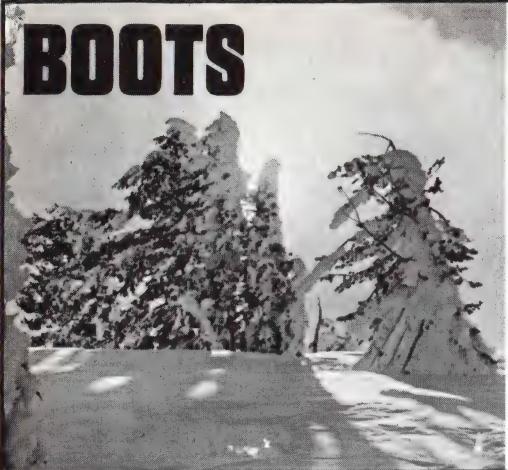
For Model: 92 and Chevron Bags. S115.....Wt. 1 lb. 9 oz. \$17.50

For Model: 98 Bags. S116.....Wt. 1 lb. 12 oz. \$18.75



DOWN FILLED HOOD. Complete protection for head and shoulders. Ideal supplement for sleeping bags where used in extremely low temperatures or at cold, windy sites. Green Egyptian cotton shell with Gray Goose Down fill. Wgt. 6 oz. A113.....\$7.95

BOOTS



SELLA

Medium weight hiking, mountaineering and climbing boot. Italian hand crafted. Dark brown uppers are made of best quality full-grain leather. Has smooth leather lining padded with foam rubber. Boot is free of side seams for comfort. Has hard toe and strong heel counter. The welt sole is double hand-stitched to the upper and Vibram Montagna sole is hand-stitched to the midsole. Soles will not pull loose! This boot meets the requirements of the average mountaineer because of its flexibility, comfort, and ability to stand up under hard use. Sizes 4 1/2-13; widths A to E. Mens—5 lb., Ladies—4 1/2 lb.

B104 \$28.50

EIGER

Heavy duty 6" mountaineering boot imported from Italy. Uppers are of combination chrome- and oil-tanned leather, black in color, that is resistant to rock abrasion and water penetration. Extensively padded throughout ankle section; fully lined in calf. Hard toe cap and heel counter specially treated to hold shape. Vibram Montagna sole is cemented on, and reinforced by brass screws at toe and heel sections. Sole has no overhang. This boot has been proven on expeditions to the Andes, Himalayan and Alaskan ranges. Sized from 5 to 13 in five widths, A to E. Men's weight 4 3/4 lb.; women's 4 1/4 lb.

B106 \$30.00



ARLBERG

A rugged mountain shoe made for rough trails and alpine climbing. The uppers are made of reverse dry tan leather, free of seams except for back stay and upper inside quarter. Fully lined in calf. The full bellows tongue is backed by a padded inner tongue. Vibram Montagna sole, cemented and secured by brass nails. Excellent quality and workmanship by one of the leading bootmakers of Austria. Sizes 6 to 13, Narrow, Medium, Wide. Mens—4 1/2 lb. Ladies—3 1/2 lbs. B201 \$25.00

BIG HORN

Light and rugged American hiking-mountaineering boot. Made by Voyageur along the lines of a European alpine climbing boot: 6" height; minimum number of seams on upper, nylon sewn. Full bellows tongue backed by padded inner tongue, lacing hooks. The combination oil- and chrome-tanned leather uppers are unlined, rough-out, and reinforced at heel counter, toe and arch; padded collar to keep out scree and snow. Vibram Montagna sole closely trimmed to upper. Sizes 7-13, Med. and Wide. Avg. wt. 3 1/2 lb. B304 \$21.75
Women's Model—a lighter and softer version with the non-marking Roccia Smart sole. Sizes 5 to 9 1/2, med. width. Avg. wt. 3 lb. B305 \$17.75

SUMMIT

Companion model to the Cortina (facing page), embodying all virtues of good fit and flexibility, but beefed up in the right places for longer wear: Hard finish leather uppers serve better in wet conditions in the mountains. Fully lined in smooth calf, padded around ankle. The high-traction Vibram Roccia sole is closely trimmed, advantageous for broken trail hiking or rockclimbing. The hard toe caps and heel counters are specially treated to hold shape. Sizes 5 to 13; widths AA to D. Men's weigh 4 lb.; ladies, 3 1/4 lb. B102 \$25.00

MONTE ROSA

Developed in Europe for climbing in the Alps. 5" height, oil tanned leather with hide reversed "rough-out" texture for abrasion resistance. Fully lined with chrome-tanned leather, backed with foam rubber around the ankle section, including tongue. The Vibram Montagna sole has no overhang, assuring good balance on rock and technical ice. Elastic snow and scree collar. An excellent high alpine boot for use on snow and rock, and for general high mountain hiking. Four widths: A, B, C, D. Men's weigh 4 1/2 lb.; ladies, 3 3/4 lbs. B105 \$31.00





LASSEN

Italian 9" hiking boot for men and women. Uppers are made of oil tanned, full grain leather, free of side seams. Boot and tongue are lined in smooth calf. Full bellows tongue makes this boot practically waterproof. Hard toe. The Vibram Roccia sole, noted for its high traction and long wear, is hand-stitched to the upper, as is the welt sole. A fine boot for hiking, hunting, wet country. Specially lasted to give freedom around toes and ball of foot while providing snugness about angle and heel. Chocolate brown color. Sizes 6-13½; widths A to E. Men's weigh 4¾ lb.; ladies weigh 4 lb. B107.....\$29.95

CORTINA

Our lightest weight hiking shoe, made in the Dolomite region of Italy on a last that seems particularly agreeable to the American foot. Uppers are of soft, scuff-resistant grey suede. Fully lined with smooth calf that is padded around ankles. The high-traction Vibram Roccia sole is closely trimmed (no overhang) which makes this shoe suitable for rockclimbing as well. Both men and women enjoy this shoe because of its light weight and flexible comfort. Sizes from 3 to 13 in widths AA to D. Men's weigh 3 lb. average; Ladies, 2¼ lb. B101.....\$21.50



CHIPPEWA

Bush and mountaineering boot 8" high. Speed-lacing, comfortable moccasin toe. The oil-tanned Spanish Moss leather, light brown in color, stays soft and repels water. Inside lining of smooth glove leather. Gusseted cushioned tongue. Arch support with steel shank. Deep tread Vibram Montagna sole cemented and thermally bonded, then L-clinched for positive attachment. Sizes from 7½ to 13 in widths B, D, EE. Men's weigh 4¼ lb.; ladies, 3¾ lb. B302.....\$32.50



TRAILWISE PACKER

A proven favorite with many hunters, fishermen, construction workers, hikers, and mountaineers. The famous Munson last and rocker sole combine for excellent fit and hiking comfort. 8" high tops, full-grain black semi-oil-tanned leather; hard toe; ebonite heel counter reinforced with outside counter; reverse overlapping upper seams (prevents seams snagging on rocks); and the imported deep-tread Vibram Montagna sole for good traction and long wear. Sizes 5 to 13; widths A to EE. Unlined. Weight: Men's, 4½ lb.; ladies, 3½ lb. B301.....\$27.50

SPIDER

Italian shoe designed for technical rockclimbing. Soft unlined upper, hard toe. Exceptionally stiff Vibram Roccia sole for edging on tiny holds. The toe section is fully capped by an additional thickness of leather, as is the heel counter, giving full protection from rock abrasion around the whole shoe. Tough grey suede throughout. Sizes 5 to 12, widths AA to D. Men's weigh 2¾ lb.; ladies, 2 lb. B100.....\$16.50



ZILLERTAL

Our direct import from Austria. A technical rockclimbing shoe, especially good for friction work. The uppers are made of scuff-resistant grey suede leather, doubled over the entire toe region for best resistance at points of great wear. Both insole and midsole are made of dry-tanned leather of suitable thickness to give good support on tiny nubbins and flakes. The heelless Marwa sole is unparalleled for friction. For rockclimbing, a very snug fit is usually preferred. Sizes 4 to 13; one width. Avg. wt. 2½ lb. B203.....\$13.95





K-2

A high-altitude boot proven in the highest ranges of the Americas and Asia, made in Germany by Adolf Wagner. The only answer for technical climbing in very cold weather, since overboots are not needed for warmth. The separate inner boot is thickly padded and insulated at every point, including the sole, and has a 2 3/4" insulated collar that wraps around lower part of the calf. Can be used independently as a hut boot or after-ski boot. The outer boot is made of black pebble-grained Muscovy hides with independent strong heel- and toe-caps to take the abuse of cramponing. Secure lacing rings, hinged heel, and Vibram Montagna sole. Weight 6 1/2 lb. Sizes 8-13 in one width, Med./Wide. B204.....\$59.50

PERSSONS X-C RACING SHOE

Very light and flexible Swedish Cross-Country racing shoe. Pebble-grained black leather top with padding around ankle to keep out snow. Very supple leather sole with soft rubber heel. Fits only X-C racing binding. Sizes 7-11 1/2, weight 2 lb. B207.....\$17.95



WALKER

Italian hand made oxford with moccasin toe. Uppers are made dark brown, full-grain leather, lined in soft calfskin. The shallow tread Vibram Roccia sole is of the non-marking type. This tough, high-traction oxford is carefully and smoothly finished throughout. Casual but elegant for country outings. Sizes for men from 7 to 13 in widths A to D. Weight 2 3/4 lb. B103.....\$22.00

CARIBOU

This 8" high Italian crafted boot is made of soft flexible chocolate brown leather, lined throughout in calf. Soft moccasin toe, sturdy heel counter. Water resistant construction: tightly sewn toe seam, all backstay, heel counter and instep seams are triple-stitched with nylon thread. Vibram Roccia sole (non-marking type). This boot is recommended for those who want a soft and flexible field boot for hunting and hiking in both wet and dry country. For men and women: sizes 4 1/2 to 13. Widths AA to E. Men's weigh 3 3/4 lb.; ladies, 3 lb. B108.....\$35.00

LAKE PLACID TOURING BOOT

For ski-touring, this is the kind of boot that will put wings on your feet: lightly and strongly built to save precious ounces; supple and comfortable for effortless running X-Country. Highly recommended for short tours in the Spring. Rugose rubber sole, pebble-grained black leather tops, metal reinforced at heel counter and toe welt. Fits any X-Country or touring binding. Padding around top seals against snow. Sizes 6 to 11 1/2, one width. Men's weigh 3 1/4 lb.; women's 2 3/4 lb. B208.....\$15.00

MINARET SKI TOURING BOOT

A ski-mountaineering boot that combines seemingly diametrically opposed features! It is a supple and comfortable touring boot; at the same time it serves very well for downhill skiing and winter climbing. A double boot, made of superbly durable pebble-grained black leather with a comfortable form-fitting speed-lacing inner boot that can be snugged up for downhill running and loosened for the uphill climb. Hinged heel allows forward flexibility. Shallow tread lug soles add versatility; make the Minaret useful for combined ski-climbing ascents. For men and women. Sizes 6 to 13 1/2; widths X-Narrow to X-Wide. Men's weigh 5 1/2 lb.; ladies, 4 3/4 lb. B202.....\$28.00



HOW TO ORDER BOOTS

Please follow these directions carefully. The information requested below is essential for the fitting of your boots:

1. Put on the socks you intend to wear. Stand up on a piece of paper, having the weight of your body equally distributed on both feet. Holding a pencil vertically, clearly define the outline of each foot.
2. State your usual dress shoe size. Give both length and width, for example 9-C.
3. Enclose the foot outline and your dress shoe size with your order.

NOTE: We guarantee a proper fit. Instructions for trial use of your boots will be sent with them. If the fit is incorrect, send the boots back to us with the coupon provided on the instruction sheet. A new pair of boots will be sent back to you postpaid.



RAWHIDE LACES: For 8" to 12" boots. These laces are oil-tanned and made from heavy gauge leather. Length 72". B910 pair/60¢

BRAIDED NYLON LACES: Textured, waxed nylon, particularly suited as lace material. It possesses unusually high tensile strength and will not slip due to its waxy finish. Colors: Black, Red, White. Two lengths: 54" long. A123/54 pair/50¢
72" long. A123/72 pair/60¢

KIWI BOOT WAX. Approved method of preserving leather and waterproofing boots. Apply after each trip. In 2 1/2 oz. tins. Black, Brown, and Neutral. B901 29¢

SNO-SEAL. The original wax waterproofing for leather. Formulated many years ago, but still considered to be the best for waterproofing ski boots and other boots in which firmness is the desired characteristic. Two sizes:
8 oz. can. B902 95¢
4 oz. can. B903 60¢

SHOE SAVER. Silicone treatment for leather, suede, and canvas shoes. Used liberally, will provide lasting protection and will yet allow the leather to breathe. Spray can contents 8 oz.; total weight 11 oz. B904 \$1.59

SEAM AND BOOT SEALER. Specially prepared for waterproofing golf shoes, ski and hiking boots. Keeps leather pliable without undue softening of leather. 8 fl. oz. B905 \$1.10

RESOLING SERVICE

Commando soles will not come loose if attached properly to the boots. Proper attachment employs thermal bonding with a proven adhesive. We recommend that you engage your local shoe repairman to undertake resoling, as the savings in money and time are considerable. If boots are sent to us for resoling, please state:

1. Any extra work to be done; stitching of seams, etc. Enclose \$1.00 extra for work of this type; more if necessary in proportion to the extent of the damage. Excess will be refunded.
2. Date that you require the boots.

Price includes sole, rubber midsole, labor, and postage. \$12.00
Basic price (California residents add .16 sales tax).

Note: Allow four weeks from the time you send in your boots till the time you get them back resoled. Shop time is 7-10 days, but time in transit will vary with where you live.

VIBRAM LUG SOLES. (Swiss made) These are the soles that you will find on all our boots. Made of black compounded rubber that will grip on almost any surface except glare ice. They are used extensively by outdoorsmen and mountaineers throughout the world, and will outgrip and outwear ordinary rubber or nails in all respects. Two weights of sole are offered: Montagna is the deeper tread, heavier; recommended for general hiking and mountaineering; Roccia is lighter, suitable for rockclimbing and light trailwalking.



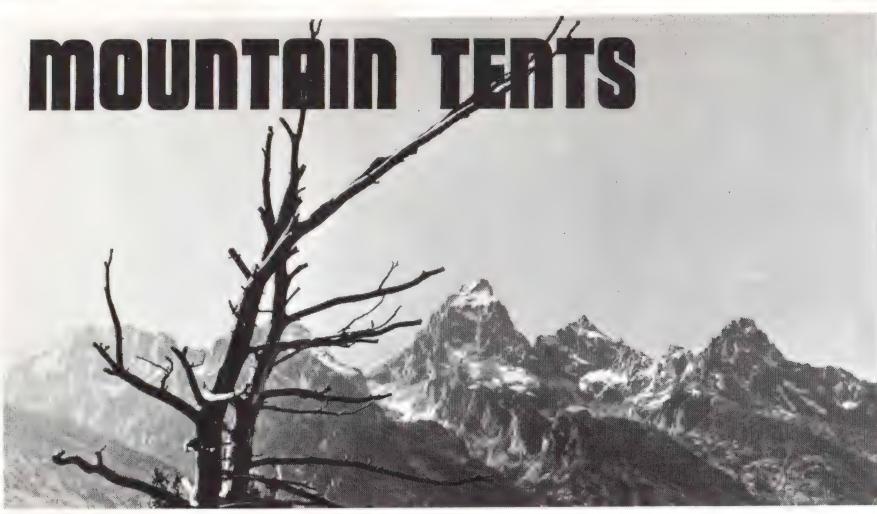
COMMANDO SOLES are the only kind of Vibram-type lug soles currently available for resoling purposes. When our present supplies are exhausted, the Vibram sole will no longer be sold separately, although it will continue to be the original sole on all our imported boots. Commando soles are similar to the Vibram in all respects. They are British made. When ordering, be sure to include outline of present shoe sole.

1 MONTAGNA: Av. wt. 1 lb. (While supply lasts.) B010 \$2.95
2 ROCCIA: Av. wt. 12 oz. (While supply lasts.) B011 \$2.50

3 COMMANDO SOLES. British-made cleated sole, similar to Vibram Montagna in weight and cleat design. Soles and heels weigh 1 lb./pair average. B012 pr./\$3.75
Heels only. Weight 8 oz. B014 pr./\$1.50

RUBBER MIDSOLES are needed to obtain best bonding of Vibram or Commando soles. Midsole is first stitched to boot sole, then the main lug sole is cemented to the midsole. Average weight, 6 oz. B013 pr./\$1.00

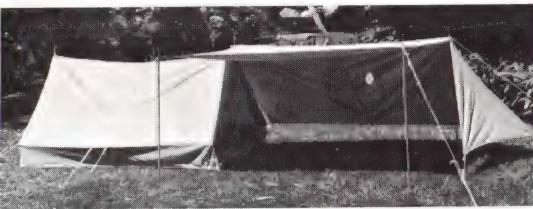
MOUNTAIN TENTS



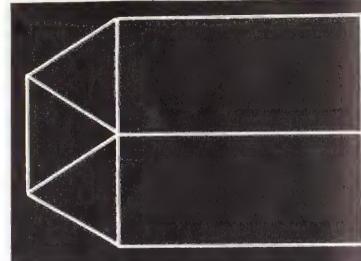
TRAILWISE ONE MAN MOUNTAIN TENT

A small, lightweight tent designed for one person plus gear. The functional design of the front alcove plus tapered foot section provides adequate floor space. Two Nylport flaps cover alcove floor, and can be folded back for cooking space. Floor at front poles is 40" wide, tapering to 16" at rear pole, and is made of sewn-in Nylport. Floor length is 6'6" to angle poles; alcove is an additional 22" long, and is closed by zipper as pictured. Fabric of tent is orange or green Alpine Nylon as available. Complete with front angle poles, rear pole, guy lines and shock rings, 8 pegs and carrying case. Specify first and second color choices when ordering. Weight 2 lbs. 14 oz. T105 \$57.50

FLY SHEET FOR ONE MAN TENT. Made of waterproof Nylport coated nylon. Will provide complete rain protection. Recommended for use during heavy or prolonged rainy weather. Weight only 10 oz. T106 \$17.75

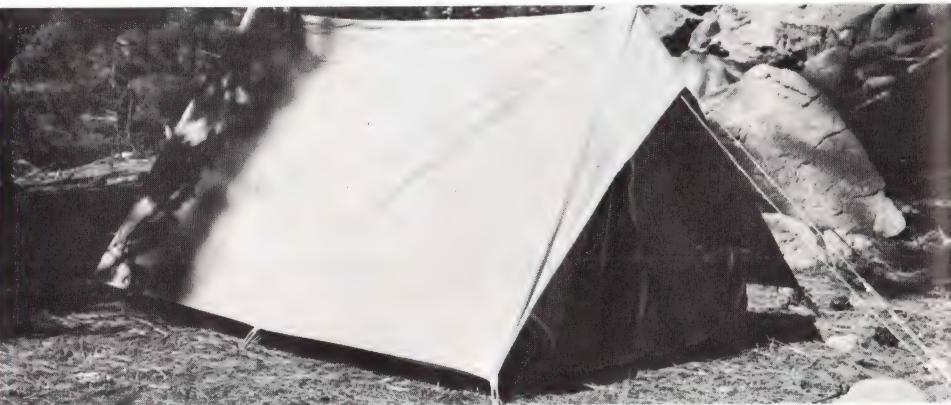


PCA 15 WITH FLYSHEET ARRANGED TO MAKE A ROOMY EXTENSION.



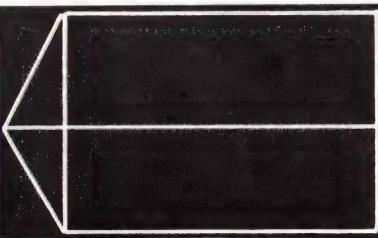
FRENCH JAMET PCA 15

Transformable tent. This tent when used with the fly cover in a conventional manner is roomy enough for three persons: height 58". Floor 5' 10" wide x 6' x 6" long with vestibule extension in rear of 2' 7". 13" width gives more effective floor space. Water proof floor. Insect proof mosquito netting. Outside door with zipper closure. Outside door is also closed with zipper. Both tent and fly cover are made of finely woven water repellent cotton that gives noteworthy protection against severe weather. Transformable feature: The fly cover may be rearranged (see photo below) to make a roomy extension to the tent. Color: Orange. Weight including tent, fly cover, metal poles, and pegs. 18 lbs. (wt. of fly cover alone: 7½ lbs.). T315 \$82.50



FRENCH JAMET TENT PCA 10

An extraordinary value in a two-man tent. Made to Trailwise specifications in France, this model holds two men and their gear in comfort and weighs only 6¾ lb. The floor is 4' x 6' 6" with a 16" vestibule in the rear. Height 39" with 10" walls that can be rearranged to make every inch of floor space usable. Outside door and mosquito netting are secured by center zippers. Upright aluminum alloy pole at each end. The double walls are bright orange densely woven cotton—double wall with air space between insures that rain will not penetrate and adds significantly to warmth inside the tent. Weight, including tent, flysheet, aluminum poles and pegs: 6¾ lb. T310 \$48.75



TRAILWISE NYLPORT GROUNDSHEETS. Made of an extremely fine woven nylon that is waterproofed with Urethane coating. Urethane coating is very flexible and will stand up to low temperatures far better than our former groundsheets made of Horcolite. Hemmed edges, grommets in corners and reinforced at points of strain. This is the lightest of groundsheets and will give excellent service with reasonable care. Color: Beige. Two Sizes. 5'x7' Wgt. 13 oz. \$120/57 \$11.50
7'x9' Wgt. 1 lb. 8 oz. \$120/79 \$16.50



EXPENDABLE PLASTIC GROUND SHEET. A very inexpensive ground sheet made of clear waterproof polyethylene plastic. Has grommets set in tape reinforcement at corners. Two sizes: Finished size 5' x 7' Wt. 11 oz. \$119/57 \$1.75
7' x 10'. Wt. 1 lb. 6 oz. \$119/71 \$2.95

FIBERTHIN NYLON GROUND SHEET. Constructed from strong, completely waterproof, tear-resistant nylon. All edges hemmed. Aluminum 'D' rings at corners and center sides so that sheet may be set up as tarp shelter or tent if desired. Mildew and rot resistant fabric ensures long life. Thoroughly field tested. Two sizes. 4' x 7', Weight 18 oz. \$117 \$8.95
8' 4" x 9', Weight 2 lbs. 12 oz. \$118 18.50



CORD TENSION ADJUSTER. An elastic link from peg to guy line. Absorbs wind shock on tent walls. T114 each 50¢

SAMSON HOLLOW STEEL PEG. Has solid hammering anvil. 7½" long. 1½ oz. T607 15¢
9" long. 3½" oz. T605 17¢

"ANKER" TENT PEG. Very efficient in any kind of ground except snow. Spring arm is self-adjusting. Nothing to trip over, easy extraction. Increased tension anchors peg more firmly.
5" top arm w/7" shaft length. 2 oz. T605..ea./20¢
7" top arm w/10½ shaft length. 4½ oz. T607 ea./45¢

PEG EXTRACTOR. One piece from hardened and tempered spring steel. Rubber grip. 5" overall length. Wt. 2 oz. T630 50¢

LIGHTWEIGHT TENT REPAIR OUTFIT. Contains thread, needles, reinforcing tapes, aluminum runners, and assorted patching material. In compact case. Wt. 4 oz. T700 \$1.25

CAST ALUMINUM TENT PEG. 6¾" long. 1½ oz. T610 30¢

BULLDOG TENT PEGS. Steel, rustproofed, light, and nest closely.
5½" long. ½ oz. T611 10¢
7½" long. 1½ oz. T612 10¢

DURALUMIN ROUND WIRE PEGS. 7" long. ½ oz. T615 12¢

ANGLE SNOW PEG. 12" Tapered. 1¾ oz. T616 45¢

TWISTED SKEWER PEG. Superior high tensile steel. Light, but grips well in poor ground. 9" long. 1 oz. T617 10¢

ALL-PURPOSE PEG. For soft sod, sand, or snow. Aluminum channel construction. Flanged at top, 8½" long. 1¼ oz. T618 20¢

PLASTIC TUBE TENT: Emergency shelter made of polyethylene. 8' circumference tube by 9 ft. 7 in. long. Can be set up quickly into tent with floor by inserting rope to form ridge. Body weight anchors tent. Weight 16 oz.

T109/1 Orange or Bright Blue....\$2.00



2-MAN PLASTIC TUBE TENT: A more companionable version of the one-man tent above. Expedient, expendable, and cheap. 4-mil polyethylene, 9' 11" long, 12' circumference. Wt. 35 oz.
T109/2 Orange or Bright Blue.\$3.50

SWISS TENT POLES

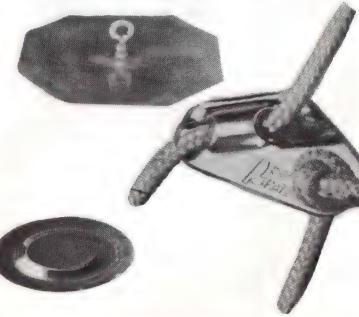
These imports from Switzerland have the well-known Swiss quality. Made of alloy aluminum tubing, anodized so that aluminum will not rub off and discolor hand or tent fabric. Spring loaded stud locks one section to another which holds pole firmly as a unit. Three sections each 16½" long. Pole length for 42" high tent. Extra sections can be added; each section increases pole length by 14".

For 42" pole. Wt. 6 oz. T301 \$3.95
Extra section 14". Wt. 2 oz. \$1.35



TRAILWISE ANGLE POLES. ½" O.D. tubing. Brass inserts. Three 16½" sections per pole, two poles per set, including removable joint fitting at peak. Weight 14 oz. T110 \$5.50/set

TRAILWISE UPRIGHT POLES. ½" alum. tubing. 3 sections per pole.
36". Wt. per pair 8 oz. T111/36 \$4.25 pr.
42". Wt. per pair 10 oz. T111/42 \$4.50 pr.
48". Wt. per pair 12 oz. T111/48 \$4.95 pr.
60". Wt. per pair 14 oz. T111/60 \$5.50 pr.



POLE BEARING PLATE. A large (5" x 7") aluminum plate having "dished" edges and a center pin to hold pole in place. Will hold poles from ¾" dia. to 2½" dia. T116 95¢

POLE BEARING PLATES. Aluminum. For poles up to 1" in diameter. Weight ½ oz. T216 10¢

TRIANGULAR GUY LINE TIGHTENER. A superior continental type of slider that effectively locks tent or tarp lines. Adjusts easily. ¾" dia. holes suitable for parachute cord or lines of similar thickness. Pkg. of 10 for 50¢ or T201 6¢ ea.

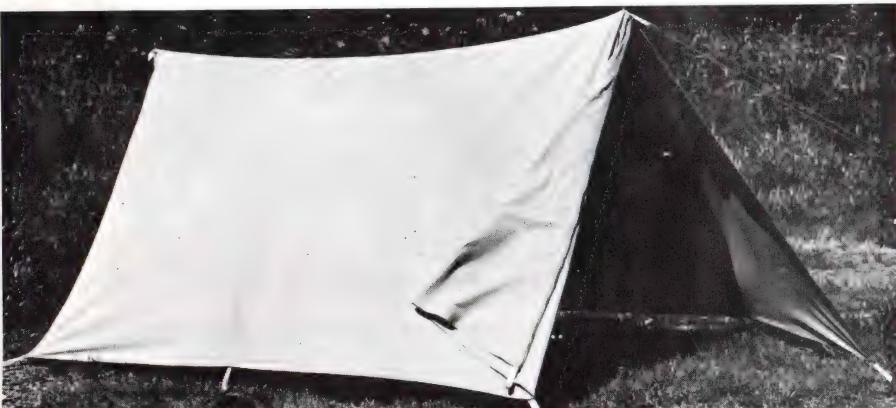
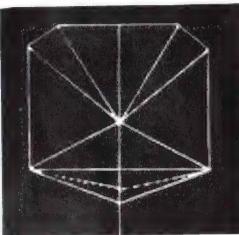


ITISA SENIOR

Large enough for 2 adults and 2 children. Doors can be closed or pegged out during good weather. Mesh ventilator under shelter hood. Floor is 7' x 7'. Height is 5' 12" walls with 4" eaves. Tent fabric is fine count Egyptian cotton approximately 3 oz. per square yd. With alloy pegs, stub plate, nesting aluminum center pole and sturdy carrying case. Tan or apple green as available. Wt. 5 lb. 10 oz. T401 \$59.50

Detachable floor of nylon. Wt. 16 oz. T402 \$17.50

Senior tent with sewn-in floor. Wt. 8 1/4 lbs. T403 \$83.50



TRAILWISE PUP TENT

ELEMENT PUP TENT. An inexpensive tent which meets the Trailwise standards of design and workmanship in all respects. Made of water repellent beige color Element Cloth. 41" high—length is 75" plus a 24" vestibule. Front opening effected by 47" zipper along vestibule ridge. Nylon loops for pegs. No floor (use tarp or poncho for protection against moisture). This tent was designed to meet the increasing demand for a high quality tent which combines reasonable weight and low price. We believe this tent to be one of the best values in the current market. Weight is 3 lbs. 9 oz. Price includes tent, two 42" vertical poles and 10 duraluminum alloy pegs. Priced at T107 \$24.95
Tent only without poles or pegs. (Tent can be pitched between two trees) Wt. 2 lbs. 10 oz. \$21.00

MOUNT LOGAN, 1965

A happy union of the makers and users of Trailwise equipment occurred last year, when the South Ridge of Mt. Logan (19,850') fell to a party of six California mountaineers, among whom was a member of the Ski Hut staff, Allen Steck. The five-week push to the summit was facilitated by the use of much Trailwise equipment as the **McKinley Tent** (facing page); the **Logan Jacket** (page 31) developed especially for this expedition; and the **Trailwise Contoured Packframe**.

The photo (right) shows a **McKinley Tent** and an as-yet-unnamed bivouac tent pitched on a site hewn into a 60° ice wall, where they remained several days while the climbers continued to scout the route ahead. Shortly after breaking camp, the whole cornice against which the tents were pitched broke away from the wall and fell to the glacier below.



Photo by Roy Johnson

TRAILWISE TARP TENT. This open end tent is an excellent, quickly set shelter that will give you protection during heavy thunder storms. The fabric is Nylport, a specially coated nylon that does not allow water to pass through. The tent is 50" high at forward pole peak, tapering to 20" at rear wall. Floor area 7 ft. x 7 1/2 ft. Sealed seams. Setting up may be effected by stretching cord to trees or by using the included center pole at front and bough poles at rear. "D" rings are attached at corners for use of tent as a tarp. 50" aluminum sectional center pole, 6 dural wire pegs, 1-12 ft. guy line and 2 6-ft. guy lines. Weight 3 1/2 lb. T108 \$37.50

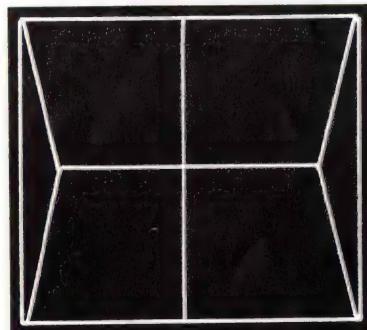
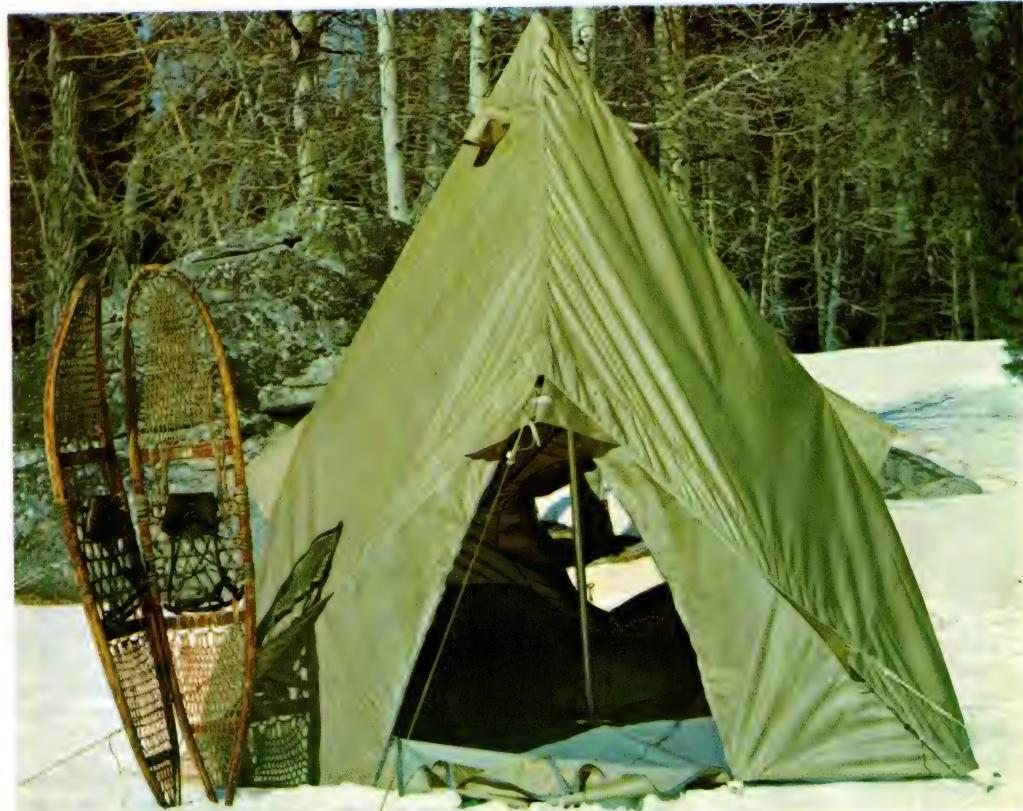


The South Face of Mt. Logan



Camp II; McKinley Tent

Photo by Franke Coole



TRAILWISE TWO MAN MOUNTAIN TENT

Lightweight two-man tent for all seasons, made of durable Alpine Nylon. Supported at each end by angle poles set in nylon sleeves, this is an exceptionally rigid tent under storm conditions. Floor is 50" x 80"; peak is 40" high. Front double zipper closure is insect and weather proof and offers effective ventilation control. Vent with netting on rear panel; mosquito netting door behind front entrance. Fly-sheet provided is necessary in prolonged rainy weather; without fly, rain will eventually "spray" through all lightweight fabrics, nylon or cotton, in spite of water repellent treatment. Tent fabric is orange or green, as available. Fly sheet and sewn-in floor are tan Nylport, a waterproof nylon fabric that will not crack or peel—ever. Tent comes with carrying case, fly-sheet, sectional angle poles of aluminum alloy, elastic shock rings, eight all-purpose pegs. Weight 7 1/4 lb. T103.....\$97.50
T103 tent as above, but with tunnel door instead of vent in rear panel.....\$102.50

FOUR MAN MCKINLEY TENT

This tent displays many features desirable to those requiring a tent for field and expeditionary use. Tent is designed to present a minimum profile to high velocity winds, while also allowing adequate interior space and lightness. There are two entrances: a large zipper door at the front and a tunnel entrance at the rear. Such arrangement allows maximum ventilation when desired and also two tents can be pitched back to back allowing access from one to the other. Fabric is 4 oz. water repellent Cascade Nylon in a Gold-Bronze color. Lower walls faced with waterproof fabric for extra protection. Floor measures 8' x 7'; tent 7' wide at doors, and height of tent is 7'. Comes with sectional aluminum pole, base plate, peak vents and waterproof, sewn-in floor. Packed in tent-compressor carrying case with guy lines, shock cords, pegs and patching fabric. Wgt. 12 lbs. T102.....\$138.50



FABRICS & DOWNWEAR



JAMET DOWN MOUNTAIN JACKET

Our special import from France; an exceedingly good value in a thoroughly baffled, full-length down jacket for rigorous conditions. Fingertip length, baffled throughout, snap closure with generous overlap. Hood tucks inside collar. Ample room inside for pulling in the sleeves to use as a sleeping bag, with a footsack. Two colors: French Blue and a rather Subdued Red, as available. Sizes Small, Med. and Large. Weight 2½ lbs. A220 \$42.50

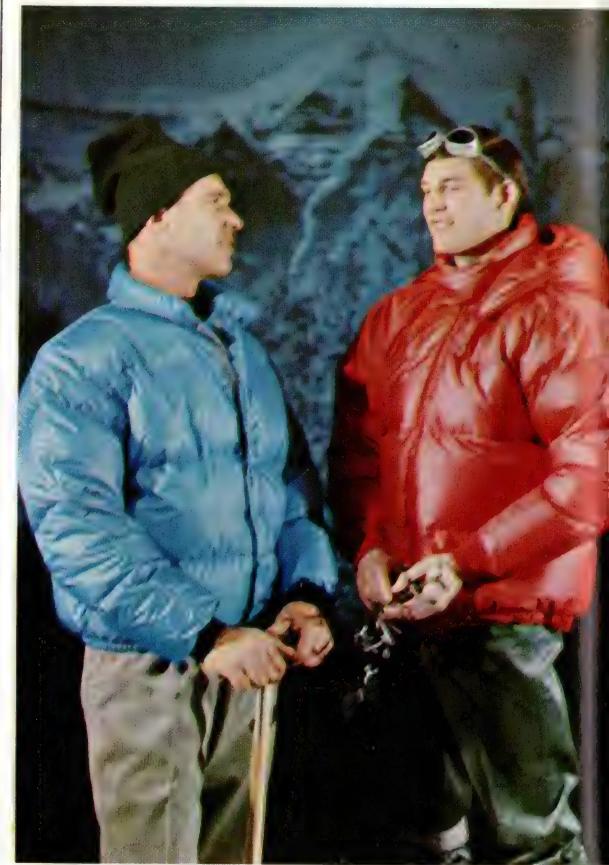
TRAILWISE DOWN PANTS

Most useful for any situation where you must remain relatively still in cold weather: for wear inside a sleeping bag, for bivouacs, for sitting in a duckblind. Quilted with grey goose down, rugged Ripstop nylon shell. Zipper fly, elastic knit cuffs. Color: blue. Weight 16 oz. Sizes Small, Med. & Large. A110 \$17.95

TRAILWISE MOUNTAIN PARKAS

Ventile Model. The best in fabric quality and design. British Ventile cotton has tight weave and high thread count, gives superior wind and moisture resistance. Lined with Element Cloth from the waist up; hood lined with Ventile. Cuffs adjustable with Velcro tape. Two 8" x 8" pockets on skirt have Velcro closures, as does the 8" x 11" chest pocket. Raglan sleeves and roomy cut give the dimensions necessary for active movement. Colors: Orange or Medium Blue. Men's S, M, L, XL. Weight 24 oz. A105 \$32.50

Nylon Reevair Model. Same design as above, except that Chest pocket is omitted. Parka is single-layer construction. Reevair allows parka to breathe, and is at the same time very highly water-repellent. Blue color. Sizes XS, S, M, L, XL. Wt. 12 oz. A107 \$24.50

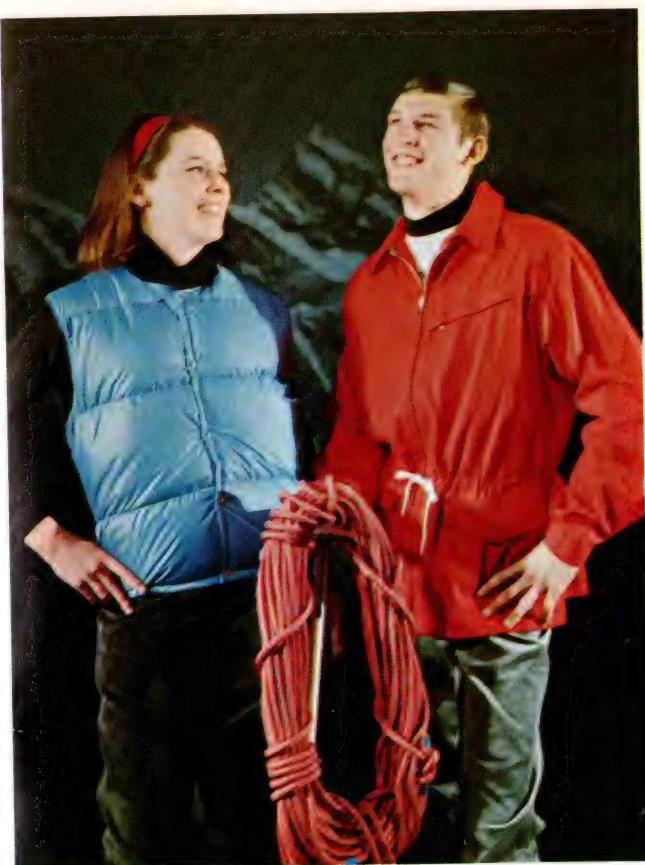


LOGAN JACKET

Designed as an intermediate-weight, all-around down jacket for mountaineering, skiing and camping: We found this jacket to be just as useful at 19,000 feet on Mt. Logan as it is around Yosemite Valley, or on a Sierra ski-tour. The Logan Jacket has the warmth of several sweaters, with less weight—and easily carried in a corner of your pack until needed. Filled with grey goose down, shell of tough Ripstop Nylon, a 3½" high down collar, and elastic knit cuffs. This is the only jacket of its kind that solves the controversial question: Zipper vs. Snaps? The Logan Model has both heavy-duty snaps and a full nylon zipper with a 2" overlap. Colors: Red or Blue; weight 21 oz. Sizes Small, Med. or Large. A111....\$26.50

TRAILWISE DOWN PARKA

Designed by Trailwise for those who need the utmost in protection against bitter cold at high altitude, this "Big Downy" is also used often by mountaineers for wear around camp during cold weather, in conjunction with a Footsack for sleeping. Built on the overlapping quilt principle, this parka has no cold seams. The 26" nylon zipper is snag-free and thickly insulated by a full-length down-filled draw flap. The parka has elastic-knit cuffs and a stand-up collar that lies snug around the neck with a generous overlap in front. Hood is close enough to be worn over other headgear; has drawstring and Velcro closure at neck. Parka is fully lofted with 16 oz. grey goose down, with lightweight nylon shell and lining. Weight, including hood: 2 lbs. Carrying sack included. Sizes: Small, Med., Large. A109 \$56.50



TRAILWISE DOWN VEST

This garment will provide great warmth and perform a variety of tasks out of all proportion to its weight, bulk and cost. Ideal for wear under a parka, in your sleeping bag, or slipped over other garments while resting on the trail and in camp. Vest is quilted and filled with Gray Goose Down; closure is effected by large snap fasteners set so that front overlaps 1 1/2" for draft control. Another feature is a knit elastic collar that is 3 1/2" high. Collar can be worn up or folded down to suit conditions. Elastic at waist. Shell material is Ripstop Nylon, which is sturdy and windproof. Sizes: Small, Medium and Large. Small and medium will fit most women. Color: Royal Blue. Wgt. 12 oz. A112.....\$17.95

TRAILWISE TOURING PARKA

A versatile and convenient parka with full-length zipper. You will find yourself wearing this parka very frequently, instead of only to the mountains. Has waist draw-cord, cuffs adjustable with Velcro tape and a concealed hood that can be fully closed around the face. Four large zipper pockets—two beneath chest flaps (12" x 8") and two on the skirt (9" x 12"). Fabric is Element Cloth; a tough weather resistant material. Due to its unique weave, the fabric is highly water resistant because the alternately twisted threads swell and interlock when exposed to moisture. We recommend this parka to the year-round sportsman who needs a light jacket for protection against wind and weather. Colors: Tan, Medium Blue. Sizes: S, M, L, XL. Avg. wgt. 1 lb. 8 oz. A108.....\$24.00
Also available in Nylon. Colors: Navy Blue, Red and Tan Wgt. 15 oz. A108.....\$27.50

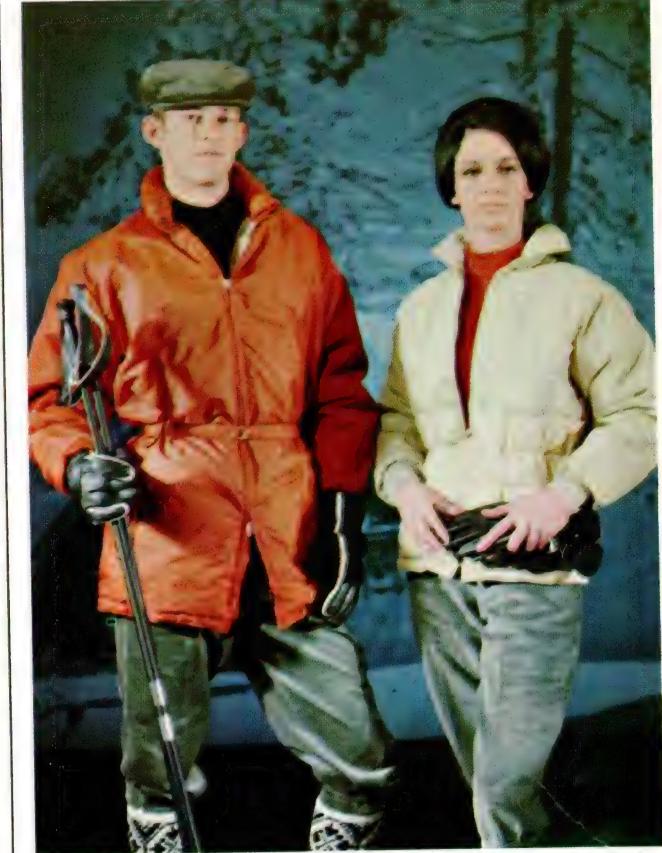


BLIZZARD DOWN FILLED PARKA

A beautifully styled parka that can be worn proudly at any cold weather sports outing, whether it be skiing, sports car driving, mountaineering or hiking along cold and exposed trails. Both lining and shell are made of water repellent treated nylon. Entire jacket is filled with down. The nylon hood, with drawcord, can be concealed when not in use. Collar is down-filled for extra protection around the neck. Parka has a full-length zipper with double slider, drawcord at waist, knit cuffs, and two zipper pockets in the skirt of jacket. A rugged, useful garment that is handsome as well. Colors: Black, Royal Blue, Graphite, Mint, Red. Sizes: Med., Med.-Large, Large. Please give alternate color if possible. Weight 28 oz. A343.....\$39.95

WOMEN'S CROSS COUNTRY PARKA

This parka is designed for mountain women who wish to sacrifice neither practicality, nor chic. The cut is becoming, yet roomy enough to permit the most vigorous activity. Has a concealed hood, full length zipper, drawstring waist and elasticized cuffs. Zippered slash pockets in skirt. Made of sturdy Element Cloth. Colors: Desert Tan, Kelly Green, Red. Sizes: XS, S, M, L. Wgt. 1 lb. 14 oz. A104.....\$13.50



ROGUE DOWN-FILLED PARKA FOR MEN

The fashionably long, belted feature is well adapted to this good-looking, practical jacket by Tempco. A smooth, professional ski appearance compromises nothing with the durable, warm construction of an ideal mountain coat. Fingertip length; quilted in body and sleeves with quality grey goose down. The outer shell is smooth, windproof nylon; the belt is removable and fastens with a double D-ring. Colors: Navy, Black, Mint, Royal Blue, Graphite, Rust. Sizes: Small, Med., Med.-Large, Large. Limited stock until Nov. 1; until then, please state alternate color if possible. Weight 2 lb. A342.....\$49.50

ROLICK DOWN-FILLED PARKA FOR WOMEN

Similar specifications to the Rogue, and as smart on the ladies as the Rogue is dashing on the men. The wide comfort range of down makes this a jacket for all seasons. Colors: Navy, Black, Graphite, Mint, Red, Olive. Sizes 10 to 16. Available about Nov. 10th. A341.....\$49.50

LADIES TIARA DOWN-FILLED PARKA

Very similar to the Men's Blizzard. The flattering quilt pattern on the yoke and the chic stand-up flaring collar make this jacket tops for beating the cold weather and looking good at the same time. Hidden drawcord can be pulled to suppress the waist, which adds to warmth and creates a distinctly feminine appearance. Filled with quality grey goose down. Colors: Black, Brown, Olive, Graphite, Royal Blue, Red, Ivory; in sizes from 10 to 16. Weight 24 oz. A344.....\$39.95



AUSTRIAN LEDERHOSEN. Genuine Austrian Import. Sturdy, rough finish, grey suede leather. Two front pockets and one hip pocket. Men's have classic button front; ladies' have side zipper. Lederhosen are made to fit loose around the waist to provide comfort and ventilation in hot weather. Must be supported with lederhosen suspenders and not with a belt. Sizes, average weight, and prices as below:

Tots: The undiscovered secret — kids can't wear these out. And they tend to expand with the child's growth.

Ages 1-4; 1½ lb. A406/t \$8.95

Children: Lederhosen make good rough-and-tumble play or hiking pants.

Ages 5-10; 1½ lb. A406/c \$11.95

Youths and Womens (specify which) sizes 23-28; wt. 2 lb. A406/yw

\$17.00

Men's: Sizes 30-38; wt. 2½ lb.

A406/m \$18.00

SUSPENDERS FOR LEDERHOSEN. Rough finish grey leather lined with felt on back. Sized according to length from waist over shoulder back to waist.

Men's (plain chest band) A416 \$3.00

Women's (heart design on chest band)

A416/w \$3.50

Men's (edelweiss design on chest band)

A416/m \$3.50

Children's (edelweiss design on chest band)

A416/c \$2.50

ICELANDIC SWEATERS. Seamless one-piece hand-knit sweaters of soft, thick, luxurious wool, with classic Scandinavian yoke patterns. Excuse our superlatives, but no machine can possibly duplicate the subtle opulence of these sweaters. Cardigans and pullovers for Men and Women in colors Dark Grey, Malt, or White. Please state alternate color if possible.

Men's Pullover; sizes Med., Lg., X-Lg.

A356/mp \$36.50

Men's Cardigan; sizes Med. or Lg.

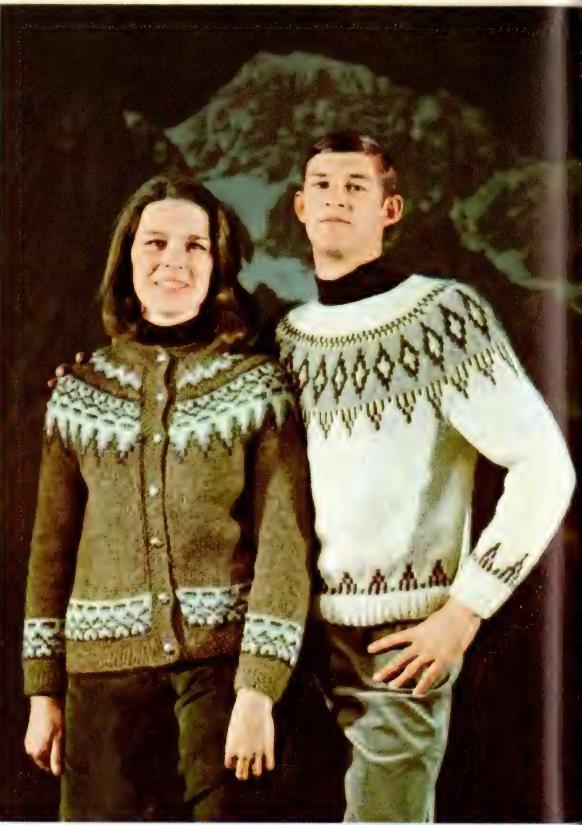
A356/mc \$40.00

Ladies' Pullover; sizes Med., Lg., X-Lg.

A356/lp \$36.50

Ladies' Cardigan; sizes Med., Lg., X-Lg.

A356/lc \$40.00



JUANTZITO BERET. Authentic French import. Made in traditional style of 100% reprocessed wool. Water repellent. Excellent protection from cold weather as well as from strong sun rays. Available in Black or Green. Specify size and color when ordering. Sizes 6¾ to 7¾. A729 \$2.50



DEFREGGER. Of softer and lighter gauge wool felt. Welt edge. Can be stuffed into pocket or pack. Colors: Dark Green, Grey or Red. Specify size, 1st and 2nd color choice when ordering. For men, women, A720 \$4.50



PALM SPRINGS. Very chic. For sports or Summer dress wear. Wide brim offers protection against sun and rain. Fabric is cotton poplin. Very water resistant. Available in banana, sky blue, or white. Sizes M, L, XL. A728 \$4.95



DORAL. This hat will take a lot of mileage in good style. Roll and crush it and it pops back into its own inimitable floppy shape. Fabric is first quality water repellent Poplin. Nylon-padded inner sweatband gives very comfortable fit. Color: Tan, white, light blue, banana. Wt. 3 oz. A725 \$4.95



BARBADOS. A practical sports hat of high-count poplin. Water-repellent & fully crushable—can be rolled up and in pocket without impairing its good looks. For men or women. Colors: White, light blue, navy. Wt. 2 oz. A726 \$3.75



TYROLEAN CAPE. Made in Austria. Sophisticated apparel for any cold weather sports activity. Outside fabric is soft, extra thick brushed wool. Collar, pockets, and bottom edge of cape trimmed in black felt. Brass antiqued buttons are embossed with Coat of Arms. Colors: White, Bottle Green, Teal and Gold. Sizes: Small, Medium and Large. Wt. 3 lbs. 8 oz. A357

\$34.95



WALKLODEN-JANKER. Imported from Austria. Heavy weight loden cloth (90% wool, 10% aril). Body is lined with colorful patterned fabric, sleeve lining in smooth grey colored rayon. Tawny silver finish buttons. Colors: Olive, Light Blue and Wine Red. Black trim. For men and women. State size and color preference when ordering. Avg. wt. 2 1/4 lbs. A350

\$27.50



ALASKA SHIRT. Heavy weight 100% wool shirt, permanently moth proofed. Long tails. Rayon lining at neck. Two breast pockets. Tweed weave in grey color. Rugged shirt that will give years of service. Sizes: 15 to 18. Wt. 1 3/4 lbs. A309

\$12.95

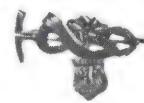
SEAFARER SHIRT. Style and specs. same as for Alaska shirt, but in Navy. 70% virgin wool; 30% reproc. Sizes: S, M, L. A310 \$9.95



No. 790/55 Pin. Silver finish. Wreath of Enzian and Edelweiss, Crest.....\$1.00



No. 790/130 Pin. Silver finish. Edelweiss and Bell. \$1.00



No. 790/89 Pin. Silver finish. Axe, rope, Edelweiss, Crest.....\$1.00



No. 783/3 Pin. Silver finish, Wreath, Ski, and Crest. \$1.00



No. 7658 Feather. Russet tone. 8" long. 95¢

No. 13182 Feather. 3" long.....75¢

No. 12049 Feather. 5" long.....75¢



No. 13735 Feather. 5" long.....75¢



Brush. 3" long.....\$1.75

Brush. 3 1/2" long.....\$2.00

Holder. In silver finish.....\$1.00



ROLLER-CRUSHER. The woodsman's favorite. Takes crushing, smashing, folding, and stomping in its stride. Tends to become very distinctive in shape after long wear. Black, Red, Green, Sizes 6 3/4 to 7 3/4. A701



BLADE. Made of Genuine Heeksuede imported from Holland in dashing colors of Mocha and Olive. Center dent; medium size brim. Sizes 6 3/8 to 7 3/8. Specify color choices and size when ordering. Wt. 4 oz. A724



PERNECKER. A Tyrolean hat for men. Select wool felt. Welt edge. 1 1/8" leather hat band on inside. Colors: Grey, Black, Red, or Green. Specify size, 1st and 2nd color choice when ordering. A721

\$6.50



ST. ANTON. Soft wool felt. Indented crown. Broad embroidered band in black and white pattern. Black welt trim on brim. Color: Light Olive. Specify size. A722

\$6.50



BENTLEY. For all types of sportswear. In corduroy: color choice of dark grey or beige. In tweed: choice of grey herringbone or muted olive plaid in fine virgin wool. Sizes 6 3/8 to 7 3/8. A723

\$4.50

UNDER AND OUTER WEAR



STRING SHIRT. This shirt is designed on the 'air trap' principle. The knitted cells, made from soft cotton yarn, hold the warm air against the skin yet allow sufficient ventilation. This article of underwear is very comfortable and is particularly suitable for anyone who needs extra warmth close to the skin. Color is white. Specially sized for men and women: sizes S, M, L and XL available for both. Wt. 7 oz. A651 \$4.00

STRING LONGS. A wonderful, lightweight, non-itch underwear. Made of soft cotton woven in fishnet pattern utilizing the 'air trap' principle. White. Avg. wt. 7 oz. Both men's and women's sizes available. Men's S, M, L, or XL. A652/m \$4.00 Women's S, M or L in finer net pattern. A652/w \$4.95

DUOFOLD 2-LAYER UNDERWEAR FOR MEN. Ankle length longs and long sleeved shirts. Extra heavy duty. Used successfully by the Makalu Expedition and the Olympic ski teams. Inner layer 100% cotton; outer layer is a 40% wool, 50% cotton, 10% nylon blend. Available in light gray. When ordering, state waist and shirt or jacket sizes. Avg. wt. 11 oz. Shirts or longs each A653/m \$6.25



DUOFOLD 2-LAYER UNDERWEAR FOR LADIES. The inner layer is made of finely combed cotton; the outer layer is a 25% wool, 65% cotton, 10% nylon blend. The trapped air between the layers adds very effective insulation. Color is flame red. Sizes 10-20. Avg. wt. 7 1/2 oz. Long sleeved shirts or ankle length pants each. A653/w \$6.00

NYLON ANORAK. Waterproof nylon parka with hood. Parka folds into its own chest pocket for easy carrying. Nylon zippers. Colors: Red, Black, Bright Navy. Wt. 9 oz. Specify for man or woman. S, M, L, XL. A205 \$8.00

CHILD'S MODEL: As above, but full-length zipper. S, M, L. Red, Black, Light Blue. A321 \$6.00



FULL ZIPPER HOODED SWEATSHIRT. An easy to 'get in and out of' sweatshirt. Made of soft, fleecy cotton. Two slash pockets; draw cord at hood. For lightweight, inexpensive warmth. Excellent around camp on chilly evenings and for comfort when worn inside of a sleeping bag to keep out cold drafts around the head and neck. Colors: Red, Olive, Black and Gray. Sizes S, M, L. When ordering, please state first and second color choices. Smaller sizes should fit most women—a fairly loose fit is desirable. Avg. wt. 18 oz. A606 \$4.95

HOODED PULLOVER SWEATSHIRT. Similar to above model but without zipper and the two slash pockets, having instead one large kangaroo style pocket. Colors: Red, Navy and Grey. Sizes Small and Med. State first and second color choices when ordering. Smaller sizes fit most women—a fairly loose fit is desirable. Avg. wt. 17 oz. A607 \$3.95

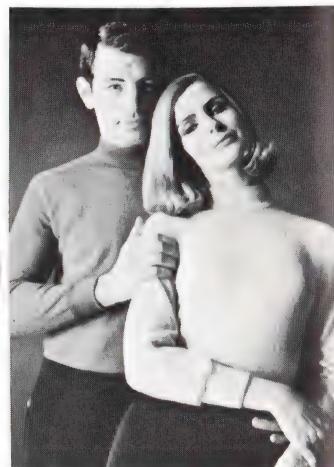
SWEATPANTS. Companions to the hooded sweatshirts. Made of the same high quality warm, fleecy cotton. When used with the shirt, makes an ideal pajama suit. Also very comfortable for wear under climbing pants. Sizes S, M and L in grey color only. Please state waist size when ordering. Avg. wt. 16 oz. A608 \$3.50



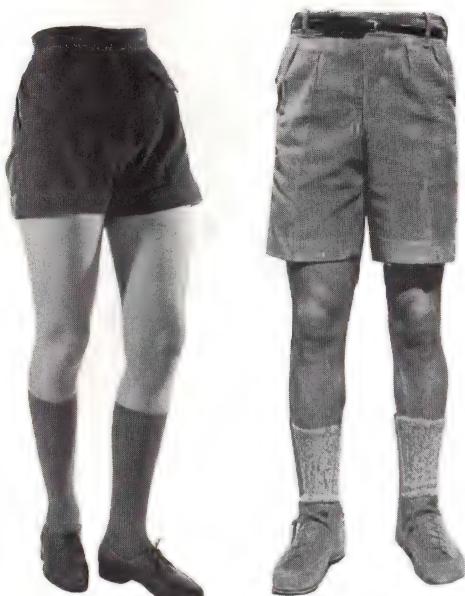
CHILD'S HOODED SWEATSHIRT. Sizes 6, 8, 10 or 12 in red or grey color. Pullover style. Avg. wt. 12 oz. A630 \$3.00

CHILD'S SWEATPANTS. Sizes medium or large in grey color only. Avg. wt. 10 oz. A631 \$2.75

DUOFOLD TURTLENECK JERSEY. Completely washable 100% cotton jersey with nylon-reinforced neck that will keep its shape after numerous washings. Built-in stretch along the shoulder seam gives freedom of movement, a feature unique to Duofold. Colors: Black, White, Cobalt Blue, Wine, Brown, Earth. Sizes: Mens Small, Med, Large, X-Large. Ladies Small, Med, Large. A305 \$3.95

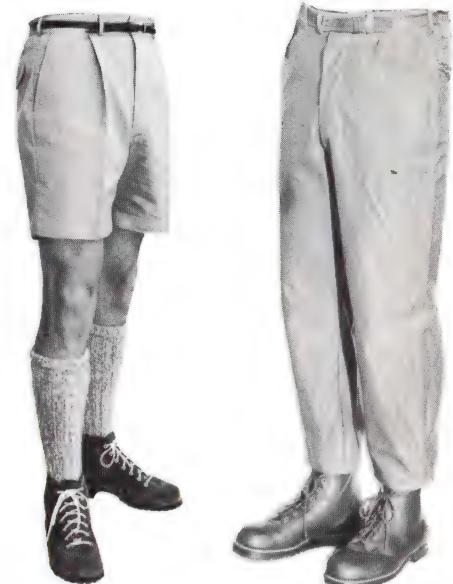


PANTS AND SHORTS



LADIES' CORDUROY SHORTS. Soft corduroy in continental pattern. Cuffs. Side zip. Two slash front pockets. Colors: bottle green or grey. Sizes 22" to 30". Wt. 12 oz. Specify 1st or 2nd color choices when ordering. A402 \$9.75

MEN'S CORDUROY SHORTS. Made in England. Two side pockets; one hip pocket. Fawn color. Even 30 to 38; specify your size when ordering. Wt. 1 1/4 lbs. A401 \$9.75



MEN'S HIKING SHORTS. Made of 9 oz. sateen. Water repellent treated, mercerized and pre-shrunk. Color: sage green. Sizes 30-38. Two front pockets, two hip pockets. Wt. 10 oz. A101 \$8.50

MEN'S HIKING PANTS. Made of 9 oz. mercerized Alpine cloth that has been treated for water repellency. Sanforized. Seat and knees are reinforced with extra thickness of Alpine cloth. Brown color. Two front slash pockets, belt loops, watch pocket, two rear pockets. Straight leg style. 30" inseam. Sizes 30 to 38. Wt. 1 1/2 lbs. A407 \$11.95



CORDUROY KNICKERS FOR MEN. Made in West Germany. Wide wale, plush quality corduroy. Two slash side pockets and one hip pocket, all with zipper closure. Adjustable take-up waist band. Friction grip inner belting at waist. Double layer corduroy reinforcement at crotch. Zipper fly. Adjustable cuffs. Color: steel grey or Sage. 1 3/4 lb. Even Sizes 30-38. A403 \$15.50

TRAILWISE MOUNTAIN PANTS. Fabric is 16 oz. 50% worsted, 50% Dacron Whipecord. Stitched throughout with strong Dacron thread. 29" inseam leg may be worn high or low with Velcro adjustable cuff. Two side pockets and two hip pockets with zipper closure. Zipper fly. Cut full and well reinforced. Two layer Whipecord double seat for extra strength and wear. Even sizes 30 to 36; Color is med. grey. Average wt. 2 lb. A102 \$34.95



CORDUROY KNICKERS FOR WOMEN. Made in West Germany. Same quality wide wale corduroy as in Men's Corduroy Knickers listed above. Two slash side pockets with zipper closure — adjustable take-up band. Friction grip inner belting at waist. Double layer corduroy reinforcement at crotch. Side zipper opening. Adjustable cuffs. Colors: Sage or bottle green. Sizes 10, 12, 14 and 16. Wt. 1 3/4 lbs. A405 \$15.50

SWISS MADE CORDUROY KNICKERS FOR MEN. Wide wale, super quality corduroy knickers. Fashioned and made in Switzerland. Heavily stitched and reinforced; double layer thickness of corduroy at crotch. One rear pocket, two side pockets all with zipper closure. Button fly. Belt loops. Adjustable cuffs. Fawn color. These knickers are for those who want the best available. Even sizes only from 30 to 36. Average weight 2 lbs. A404 \$26.50



EXTREMITIES



TRAILWISE DOWN FILLED SOX. The warmest of all sox. The shell is made of Zeta Nylon. The outsole is made of strong waterproof Fiberthin. A $\frac{1}{8}$ " thick layer of Esonlite is added to the sole for better insulation. Ideal under shoe pacs, waders, inside tents and to keep feet warm while sleeping. Sizes: Small, Medium and Large. Wt. per pr. 4 oz. A115 \$6.50

TRAILWISE GAITERS. Snug elastic grip above and below ankle. Made of water repellent $3\frac{1}{2}$ oz. nylon duck. Keeps out sand, gravel and snow. Zipper closure permits gaitor to be put on independently of boot. Tie-cord at bottom. Wt./pr. $3\frac{1}{2}$ oz. Color: Black. A116 \$4.75



OVERBOOTS. Positive protection for the feet in extreme conditions of cold-weather mountaineering. This model has been recently improved; now has a nylon zipper fastening in back. Snugness is maintained with elastic at the ankle and calf. The boot is 18" high, made of waterproof urethane-coated nylon duck. Pockets inside hold optional esonlite insulation. Send sole outline when ordering. Sizes small, medium and large. Wt. per pair 15 oz. A117 \$13.25

ESONLITE INSULATION PADS. For above overboots. Wt. 11 oz...\$2.50

DOWN MITTS. Designed for high mountaineering or cold-weather skiing. Insulated with down, front and back. Palm is naugahyde, a waterproof material as tough as leather. Length is generous, to cover most of forearm. Sizes Small, Medium and Large. Send outline of hand for best fit. Weight 7 oz. A114 \$11.95



BALAACLAVA HELMET. An invaluable item for extremely cold weather. Can be used either as a cap or a full protective helmet. Made from long fiber, soft, fleecy Shetland wool. Navy or Grey or tan color. State 1st and 2nd color choices. Wt. 4 oz A711 \$2.75

PATTERNEDED HEAD BAND. Soft Virgin Orlon. Brood design which gives full protection to ears and back of neck. Colors: Black, Blue, Red, or Green with White pattern. Also White with Black pattern. Wt. 2 oz. A712 \$1.95



"PIRU" KNICKER SOCKS. Extremely well made and handsome socks from Germany. 100% wool knits that are made extra long. No gap between sock and knicker. Women's: Sizes 9, $9\frac{1}{2}$, 10. Colors: Gray, and Tobacco Green. Wgt. 5 oz. A933 \$4.00
Men's: Sizes 10, $10\frac{1}{2}$, 11, $11\frac{1}{2}$, 12. Color: Heather-Green Mix. Wgt. 11 oz. A934 \$6.50



NORWEGIAN SELBU STOCKINGS. 100% heavy wool that will not become soggy when wet. Shaped to stay up. Black and White pattern. Avg. wgt. 7 oz. Sizes: S. M. L.
Ladies. A935 \$9.75 Men. A936 \$10.75



EXTRA HEAVY NORWEGIAN SOX. These sox are 10" ribbed top with nylon heel and toe reinforcement. Cushion quality extra thick wool. Grey. Sizes 9-12. Wt. 7 oz. A902 \$2.95/pr



NORWEGIAN BOOT SOX: Heavy weight 100% wool sox that are superior for skiing or use in high altitudes, glaciers, etc. High enough for 8" mountaineering boot. Grey only. Sizes for children and adults. Size 6 and 7. Av. wt. 2 oz. Price A901 \$1.25 pr.
Size 8 and 9. Av. wt. 3 oz. Price A901 \$1.75 pr.
Size 10 and 11. Av. wt. 4 oz. Price . A901 \$2.00 pr.
Size 12 and 13. Av. wt. 5 oz. Price . A901 \$2.50 pr.

NORWEGIAN LONG BOOT SOX: Knee length sox made of 100% heavy weight wool. Highest quality. Av. wt. 6 oz. A931
Size 9 \$2.50 Size 10 \$2.95
Size 11 \$3.25 Size 12 \$3.50



HEAD BAND. Made in France. 100% wool. Shaped pattern that fits well over forehead and ears. Colors: Red, French Blue, Black, White. State 1st and 2nd color choices. Wt. 1 oz. A713.....\$1.00

ORLON BALACLAVA. The versatile "Eski Cap." Looks good on the ski slopes, gives all-weather protection with its built-in face mask. Non-allergenic and as warm as wool. Weight 3 oz. A710.....\$2.25

SILK GLOVE LINER. Augments warmth of any glove or mitten. Very useful under cold conditions when mitts must be removed to operate cameras, tie crampon straps, etc. A511.....\$2.95

G. I. GAUNTLET MITTS. Very good for cold weather mountaineering. Full leather palm and thumb, back and gauntlet of close-weave cotton twill. Removable wool liner, strap for tightening, and trigger finger for performing delicate tasks without removing gloves. Wgt. Pr. 10 oz. A501.....\$2.95

BANDANNAS. Gay patterned cotton bandanas. For camp and trail. Many uses such as sun protection, wash cloth, neckerchief, etc. Two colors: Red predominant or Blue predominant.

22" x 21" .A730.....25¢
27" x 27" .A731.....50¢

ROPER'S GLOVE. For rock-climbing and general outdoor use. A first quality glove of cream colored tanned cowhide. No split leather used, nor seconds. A nicely fitted and supple glove that will wear well without the clumsy feeling of cheaper types. Palm is free of stitching along finger and thumb bases. Strap adjustment on back. Sizes 8 to 12. Wgt. 4 oz. A502.....\$3.95

LEATHER INSULATED GLOVES. Insulated with Curon noteworthy for lightweight, cushioning, and quick drying. Lining of 100% Orlon pile. Smart, smooth, soft, Jet black leather, with all seams turned in. Sizes S, M and L for both men and women. Wt. 5 oz. A503.....\$10.95

LEATHER INSULATED MITTS. Insulated with thick cushion of Curon. Lined with 100% soft fleecy orlon pile. Outside leather is smooth, pliable calf, jet black color. Snug fitting elasticized cuff. All seams turned in. Sizes S, M and L for both men and women. Wt. 5 oz. A504.....\$9.95



ADLER NORSE SOX. Thickly cushioned pile throughout. 75% fine worsted wool, 25% stretch nylon. Provides fantastic comfort and excellent insulation. Shrink resistant. Excellent for ski, hunting and hiking boots up to 8" high. Red, White or Blue. Stretch sizes 9-11, 11-14. Ave. Wt. 3 1/2 oz. A903.....\$2.50

ADLER SC SOX. These 10" sox are lightweight wool with 10% nylon reinforcement throughout, and 3% nylon reinforcement in heel and toe. Guaranteed against shrinkage. These sox are well suited for general sport and athletic wear. Sizes 9-13. White, Green, Red and Grey. Avg. wt. 2 1/2 oz. A905.....pair/\$1.00, 3 pair/\$2.75

ADLER ASPEN WOOL SOX. These sox are soft, medium weight—90% wool, 10% nylon reinforced throughout. 11" ribbed top. Shrink resistant. Ideal sox for use with any hiking, climbing, or skiing boots. Color: White only. Sizes 9-13. Av. Wt. 3 1/2 oz. Price A906

CHILDREN'S WOOL/NYLON STRETCH SOX. Made of 65% lambs wool, 35% stretch nylon. Soft cushion type that will absorb perspiration and help keep feet warm. Washable. White only. One size fits all from 7 to 9. Wt. 2 1/2 oz. A908.....95¢ pr. 3 pr. for \$2.75



RAINGEAR

WATERPROOF NYLON PARKA. Made of lightweight rubberized nylon. All seams are taped. Zipper opening is protected by a full gusseted bib. An extremely practical lightweight parka. O.D. color. Sizes S, M, L, XL, Av. wt. 16 oz. A301.....\$6.95

WATERPROOF NYLON PANTS. Made of same quality nylon as the parkas. Pants are adjustable by elastic strap. Has deep bib pocket. Fly front. Sizes S, M, L, XL Wt. 14 oz. A408.....\$5.95



EX LONG WATERPROOF NYLON PARKA. Made of lightweight rubberized nylon. Major seams are taped. Underarm ventilation. The zipper front is gusseted for added protection. Large pouch pocket is 10" x 12". O.D. color. Sizes S, M, L, XL. Wt. 22 oz. A302.....\$8.75

NYLPORT PONCHO. Nylport, a specially coated nylon, is completely waterproof, will not crack or peel. For those who want a high quality poncho at minimum weight. May be used as an emergency shelter by snapping two together. Finished size 50" x 85". Rear drapes 12" longer than front for take up over pack. Grommets in corners. Color: Tan. Made by Trailwise. Wt. 14 oz. A106.....\$14.75

STANDARD SIZE NYLON PONCHO. Made of waterproof rubberized nylon, with a low price made possible by use of U. S. Govt. surplus yardage. Draw-50" x 80", OD color. Weight 23 oz. A200.....\$6.25

A202.....\$2.75

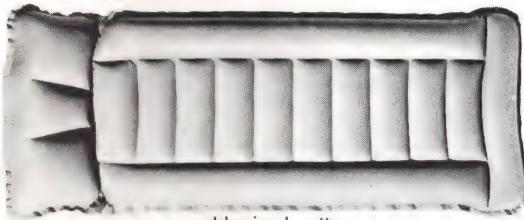
STANDARD SIZE PLASTIC PONCHO. Taupe colored poncho that is suitable for youngsters, and for those who do not want a long poncho. Snap fastener closures. Hood without tiecord. 45" x 72". Wgt. 13 oz. A201.....\$1.75

LARGE PLASTIC PONCHO. Extra large size, 54" x 96", of waterproof vinyl. The back is made longer than the front to allow for take-up when carrying a pack. The neck opening can be closed by zipper. This poncho has snap fasteners along the sides. The hood has tie tapes. 14 oz.

A202.....\$2.75

3/4 LENGTH COLUMBIA RAINCOAT. An extremely light, waterproof garment. Full-length wing-sweep zipper, drawstring hood. Dupont K-Kote nylon is rip resistant, will not run, shrink, crack, or peel! Weighs only 10 oz.; as light as any rainwear we can provide at this good quality. A203.....\$11.50

MATTRESSES & PADS



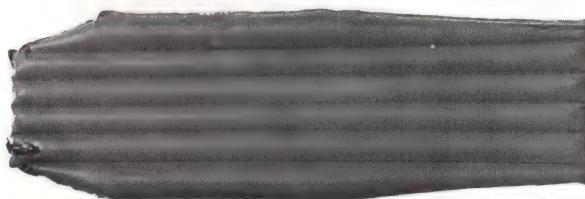
rubberized cotton

LI-LO SENIOR CAMPER. A full length air mattress having two large outside tubes connected by ten cross tubes. Rolling tendency is reduced to a minimum. Exceptional comfort. Colors, blue or green, as available. Inflated size approx. 75" x 26". Wt. 4 lbs. \$375 \$14.95

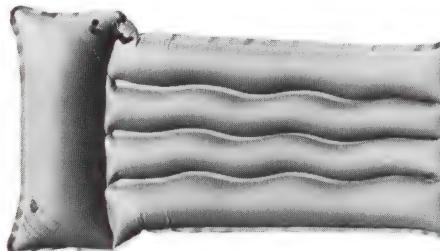


NYLON 48" BACK PACKER. High tenacity nylon, mildew proof, stain and rot resistant. Two ply gum rubber vulcanized on inside. 5 tubes. Rubber molded valve with nylon plug stopper. Bright orange on one side, green on other. Inflated size approx. 48" x 22". Wt. 1 lb. 12 oz. \$348 \$9.50

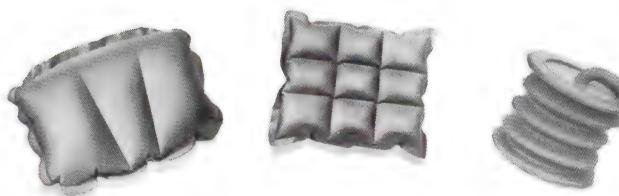
NYLON 72". Similar to Nylon 48" model except made longer. Inflated size 22" x 72". Weight 2 lbs. 10oz. \$372 \$11.50



NYLON G.I. A lightweight full-length air mattress made to rigid government specifications. These are new, first-quality airbeds. They have an oversize heavy-duty valve with plug. Air mattress tapers slightly at both head and foot. O.D. color. Inflated size 73" x 27" Wgt. 2 lb. 14 oz. \$373 \$13.50



"SCOTTIE." A lightweight, hip-length air mattress made by Thomas Black. Has four longitudinal air tubes and pillow. Sturdy rubberized canvas. Inflated size 45"x22". Color: Green. Wgt. 2 lb \$345 \$8.95



LI-LO AIR PILLOW. Has two indents for added comfort. Deflated size 15" x 10". Wt. 7 oz. \$601 \$1.75

LI-LO AIR CUSHION. Waffle reeded pattern stabilizes cushion to prevent shifting. Deflated size 20" x 16". Wt. 7 oz. \$602 \$1.95

LI-LO INFLATOR. A compact concertina type pump that will inflate your mattress in a few minutes. Very necessary in high altitudes and a big help at any altitude. Can be used on any mattress. Weighs 7½ oz. Price. \$701 \$1.95



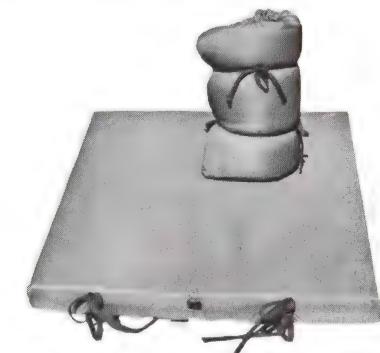
POLYURETHANE SLEEPING MAT. Sleeping pads are equal in comfort and have superior insulating qualities as compared to airbeds. No punctures, no inflating, light and durable. Can be thrown down anywhere; sit on it, lie on it, use it for backpacking, campers, station wagons or on a boat. One side is smooth; the other convoluted. Overall thicknesses 2" and 2½", valleys are 1" deep. Firm density. Two sizes, two thicknesses.

Full size: 22"x76" 2" thick. Wgt. 2 lbs. 4 oz. \$123/6 \$6.75

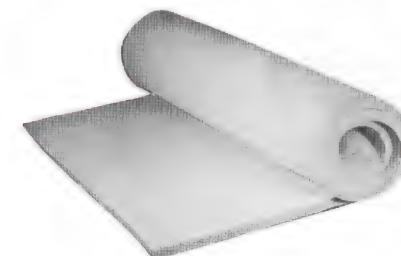
Half size: 22"x38" 2" thick. Wgt. 1 lb. 2 oz. \$123/3 \$3.75



EXPENDABLE PLASTIC GROUND SHEET. A very inexpensive ground sheet made of clear waterproof polyethylene plastic. Has grommets set in tape reinforcement at corners. Two sizes: 5' x 7'. Wt. 11 oz. \$119/57 \$1.75
7' x 10'. Wt. 22 oz. \$119/71 \$2.95
Additional ground sheets listed on page 27.

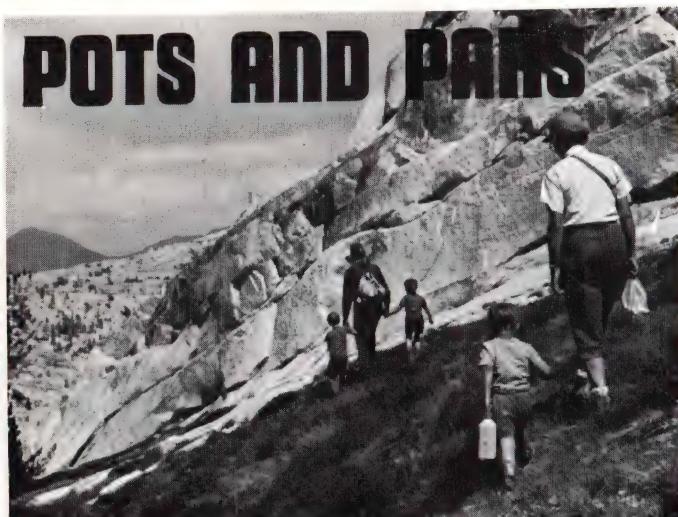


SLIMLINE PAD. 2" thick foam pad covered with waterproof Nylport. Size 20" x 30", just enough to cover shoulders and hips, the main pressure points. Has insulating ability and comfort superior to a 48" air-mattress. Wt. 17 oz. \$122 \$6.95



ENSOLITE SLEEPING PAD. Unicellular foam material noted for insulating efficiency. Will not soak up water like foam rubber. Reasonable comfort with superior protection against cold sleeping, due to inadequate ground insulation. ½" thick. 18" x 42". 14 oz. \$121 \$3.95
* Other sizes and weights listed on fabric page.

POTS AND PANS



ALUMINUM CASSEROLES. Each casserole comes with 2 detachable side handles and a lid, also with detachable handle, which doubles as a frying pan. Hardened aluminum. Smooth full radius corners. Sizes can be nested.

	U118	U120	U122
Diameter	7 1/8"	8"	8 3/4"
Capacity in pints	3 1/2	5 1/4	7
Weight in ounces	14	18	23
Price	\$4.50	\$4.95	\$6.50

SIERRA CLUB STAINLESS STEEL CUP. Stainless steel is far superior to other metals because it does not heat up greatly when filled with hot liquids. The open end steel wire handle remains cool and can be hooked easily onto belt. Multi-purpose design for holding stewed fruits, cereals, etc. as well as beverages. 4 1/2" diameter at top, 3 1/8" at base, 1 1/2" deep. Wt. 3 oz. U400 \$1.00



ALUMINUM DEEP PLATE. Made of hardened aluminum. All corners fully rounded. Top edge has a rolled welt. 8 inch diameter. Wt. 2 3/4 oz. U401 79¢

STEEL FRY PAN WITH DETACHABLE HANDLE. A sheet steel fabricated fry pan that will hold its shape longer and do a much easier job of frying than aluminum. 8 3/4" dia., 13 oz \$1.95
9 3/4" dia., 15 oz. U130 \$2.50

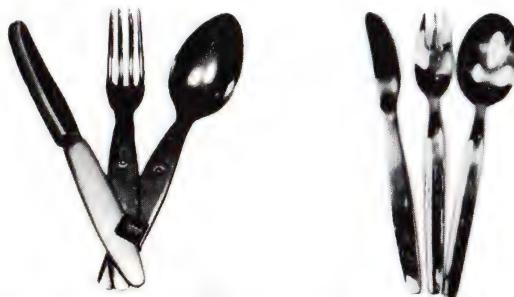


SAFARI ONE-MAN COOKSET. Spun aluminum from West Germany. Includes 8" deep plate, 7" fry pan, 2 1/2" x 6 1/2" dia. pot with lid, large fork-spoon combination, spring pot gripper and plastic cup. Packs into neat unit 2 1/2" x 8" diameter. Exceptionally lightweight and an excellent value. Wt. 17 1/2 oz. U301 \$3.75



ALUMINUM SCOUT KETTLES. Swiss made nesting kettles of first-quality workmanship. Securely fastened bail handles which lock into upright position. The lid of each kettle also serves as plate or pan.

	Capacity	Diameter	Weight	Price
U016	2 1/2 Pt.	6 1/4"	9 oz.	\$3.25
U018	3 1/2 Pt.	7 1/4"	11 oz.	\$3.50
U020	5 1/4 Pt.	8"	15 oz.	\$4.25
U022	7 Pt.	8 3/4"	17 oz.	\$4.75
U024	8 3/4 Pt.	9 3/4"	20 oz.	\$5.25



KNIFE FORK SPOON SET. British import. All aluminum except for knife blade which is Sheffield stainless steel. Clip holds utensils firmly together. 3 1/2 oz. U403 \$1.25

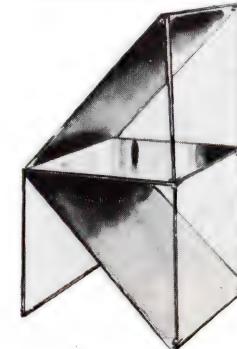
CONTEMPORARY CAMP TABLEWARE. No, it's not a luxury! Swiss-modern stainless utensils with a husky, clean-cut feel. More pleasant to the taste and touch than aluminum. Wt. 3 oz. U402 \$1.75



TOKYO TOP SALT AND PEPPER SHAKER. From Japan. Plastic container having compartment on one end for salt and compartment on other end for pepper. Plastic caps screw over holes to seal shaker. Size 1 1/4" dia. x 2 3/4" long. Wt. 1 oz. U807 65¢

SPATULA. Ever wish you had a small spatula in your cooking gear? One that was rustproof, light, compact, and that would not break or fall apart the first time you used it? Well this is it. Spring stainless steel blade that is set into a hardwood handle with brass rivets. Two sizes.

#1 Blade 2" x 2 3/4"	7" overall. Wgt. 1 1/2 oz. U901	\$1.50
#2 Blade 2" x 4"	9 3/4" overall. Wgt. 2 1/2 oz. U902	\$1.75



REFLECTOR OVEN. Reflector walls made of reflective aluminum; baking tray of light sheet steel for heat retention. The open ends reduce weight but do not impair baking efficiency. Quick, stable assembly. Oven can be moved without collapsing. For baking and roasting. Mountain tested. Tray size 10" x 12". Oven folds to 12" x 14 3/4". Wt. 1 lb. 14 oz. U501 \$7.95



NORWEGIAN 4-MAN COOKSET. Five-piece cooking outfit of aluminum. Contains: 4 qt. pot, 3 qt. pot, 1 1/2 qt. tea billy, 1 pt. saucepan, and an 8 1/2" frying pan (of heavier gauge aluminum) with insulated handle. Set includes universal gripper for the pots, lids for all pots, and a carrying bag for the whole set. Weight 3 1/2 lb. U302 \$9.95



ALUMINUM POT GRIPPER. Just the thing for hot pots, pans, cans, etc. Automatic release. 4 3/4" long. Weight 1 1/4 oz. U906 \$.49
POT GRIPPER. Made of lightweight pressed steel. Spring-loaded grip stays secure. Better for very heavy pots than the aluminum model. Handle is 6" long. Weight 3 1/2 oz. U907 \$.60
HANDY OPENER. Folding opener for all cans, one of the noblest products of the U.S. Army. Tiny, lightweight, efficient. When carried on keychain, it's always ready, doubles as screwdriver and pries off lids. Weight 1/8 oz. U910 2/25



ALUMINUM PROVISION BOX. Comes with plastic container and hermetically sealing inside cover. This box offers the best way to pack butter, jams, condiments. Plastic insert is light and odorless. Plain finish.

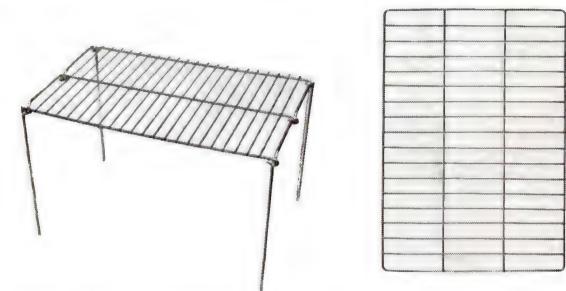
Diameter	Depth	Wt.	Price
3 1/2"	2"	2 oz.	U835 \$1.10
4"	2 1/4"	3 oz.	U840 \$1.35
4 3/4"	2 1/4"	4 1/2 oz.	U847 \$1.75
5 1/2"	2 1/2"	7 oz.	U855 \$2.50



ALUMINUM LADLE. Strong, 3 1/8" diameter ladle with detachable steel wire handle. Easy to pack, light to carry. 2 oz. U903 75¢

LARGE ALUMINUM LADLE. This one can do double-duty in your kitchen between outings. Generous capacity; a genuinely useful item for larger parties. Wt. 4 oz. Capacity 1 1/4 cups. U904 95¢

ALUMINUM STRAINER. 4" dia. with strong wire mesh bottom. Detachable handle. Wgt. 3 oz. U905 \$1.10



WIRE GRILL. For cooking over campfire. Steel. Legs fold flat. Size 11" x 17" x 11" high. Weight 2 lbs. U503 \$1.95

WIRE GRILL. Simple, lightweight platform type grill without legs. Nickel plated. Size 9" x 13". Wt. 7 oz. U502 \$1.75



PLASTIC EGG BOXES. We consider these to be a bit better than the aluminum "eggers" we carried previously. They won't dent or crush and cost 1/3 as much. Avg. wt. 4 oz.

For 2 eggs. U802 \$.35	For 4 eggs. U804 \$.49
For 6 eggs. U80679	For 12 eggs. U812 1.00



POLY-SQUEEZE TUBE. Solves the packaging problem for hard-to-carry foods: Jams, margarine, honey, peanut butter, etc. Refillable by disengaging the clip at the end. Eggs can be broken into the open tube; yolks will usually remain intact for quick and easy fried eggs in the morning. Wt. 1/2 oz. U638 ea./.30

3 for85 extra clips 3/20

ALUMINUM CANTEENS. Fitted with chain and snap hook welded on neck. Felt cover. Three sizes: U615 U616 U617

Capacity in pints	1	1 1/2	2
Weight in ounces	5	7	11
Price	\$3.75	\$4.50	\$4.95



STOVES • CONTAINERS



PRIMUS 71L. This small, compact, lightweight Primus is contained in a neat metal container which also serves as a stand to hold cooking pots. The stove burns white gas with hot blue flame and no pumping is necessary. About $\frac{1}{2}$ pt. burns $1\frac{1}{2}$ hours. Best for pots under 5" diameter. Folded size $3\frac{3}{4}'' \times 5\frac{1}{4}''$.
1 lb., 3 oz. U701.....\$ 9.95

SVEA COOKER. A practical and handy stove from Sweden, just the right size to pack into an ordinary rucksack pocket. This very efficient cooker has a windscreen which also serves as a stand for the small pot included with the set. Burns white gasoline; capacity $\frac{1}{3}$ pint which burns about 45 minutes. No pumping, equipped with safety valve. For the combination of heat output, efficiency and light weight, this stove is highly recommended. Packed size $5'' \times 3\frac{3}{4}''$ diameter. Wt. 1 lb. 2 oz. U703.....\$ 8.95

HOW TO CHOOSE A GOOD CAMPSTOVE.

The lighter weight stoves are not quite as efficient as the heavier ones, in general—but the weight saved is usually worth it for lightweight backpacking. For long trips and expeditionary use, the weight of the fuel becomes important. In such cases, a larger stove comes into its own, and cooks faster and more economically. White gas is most popular among campers because it is cheap, easy to burn, and more readily available. Kerosene and Butane are both more efficient than white gas in terms of heat delivered per pound of fuel; but butane is more expensive and less easily obtainable (although it is simpler for the non-technically-minded to use), and kerosene has a lingering odor and must be primed with alcohol to burn. Stoves with pumps are recommended for high altitude (over 12,000').

Model	Fuel	Capacity	Burning Time	Wt. of Stove Empty	Boils qt. H ₂ O in:
Svea 123	white gas	$\frac{1}{3}$ pt.	45 min.	1#2 oz.	6-7 min.
Primus 71L	white gas	$\frac{1}{2}$ pt.	90 min.	1#3 oz.	7-8 min.
Optimus 8RF	white gas	$\frac{1}{3}$ pt.	75 min.	1#9 oz.	6-7 min.
Optimus 111B	any gasoline	1 pt.	120 min.	3#6 oz.	3-4 min.
Borde	white gas	$\frac{1}{4}$ pt.	35 min.	9 oz.	7-8 min.
Primus 96L	kerosene	$\frac{1}{2}$ pt.	120 min.	1#14 oz.	6-7 min.
Svea 121L	kerosene	1 pt.	120 min.	2#9 oz.	3-5 min.
Svea 105	kerosene	2 pt.	240 min.	2#8 oz.	3-5 min.
Bleuet	butane	cart.	180 min.	14 oz.	8-9 min.
Turn	alcohol	$\frac{1}{2}$ pt.	90 min.	1#13 oz.	12 min.



OPTIMUS 8RF. Low-profile stove gives stable base to pots, burns $\frac{1}{3}$ pt. white gas in $1\frac{1}{4}$ hrs. No pumping required—stove generates its own pressure. Fitted with safety valve and self-cleaning orifice. Brass tank and japanned steel box. Large knurled control knob is very easy to adjust. Weight 1 lb. 9 oz. Case measures $5'' \times 5'' \times 3''$ U714.....\$12.00

OPTIMUS 111B. Same appearance as above stove, but operates with a pump. Ideal for expeditionary use: Will-boil a quart of water in 3-4 min. Capacity 1 pt. white gas, burns about 2 hrs. Size $6\frac{1}{4}''$ square $\times 4\frac{1}{8}''$ high. Weight 3 lb. 6 oz. U713.....\$16.95

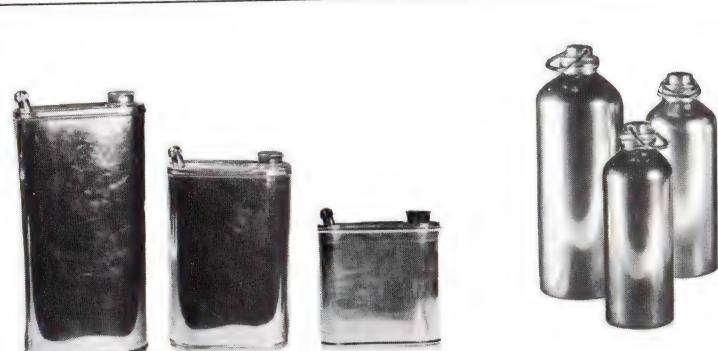
PRIMUS 96L. Burns kerosene. Primes with alcohol for instant lighting. Rated to boil one qt. water in 7 minutes. Burns 2 hours on $\frac{1}{2}$ pt. filling. Complete with primer can, windshield, wrench and cleaners. Has pump. Packed in metal box, size $4\frac{3}{4}'' \times 5\frac{1}{4}'' \times 3''$. Collapsible. Very stable for large pots. Wt. 1 $\frac{1}{2}$ lbs. U702.....\$12.95

SVEA 121L. Capacity of 1 pt. kerosene which burns about 2 hrs. Rated to boil 1 qt. of water in 3 to 5 minutes. Holds 8" diameter pots with stability. Primes with alcohol for instant lighting. Good expedition stove. Comes with primer can, wind shield, wrench and 3 cleaning needles. Disassembles in metal box $6\frac{1}{4}'' \times 6\frac{1}{4}'' \times 4\frac{1}{8}''$. Wt. 2 lbs. 9 oz. U707.....\$11.95

'TOURING TURM' ALCOHOL BURNER. Burns safe, non-explosive denatured alcohol—without pressure—with a hot flame that is easily adjusted. Fuel tank holds $\frac{1}{2}$ pint, enough for $1\frac{1}{2}$ hours cooking time. Supports will hold both large and small pots. A fine stove for indoor or outdoor use. Folded size a very compact $7\frac{1}{2}'' \times 4\frac{1}{2}'' \times 2\frac{3}{4}''$. Wt. 1 lb. 13 oz. U708.....\$10.95

SVEA 105. This is a large and stable stove, but yet surprisingly light in weight. Excellent for regular or high altitude use. Burns kerosene; 2 pints burn 4 hours. Alcohol priming. The top grate is 8 inches in diameter and will support larger pots than other stoves. Stove is collapsible. Screw cap allows fuel to be carried in stove tank. 2 $\frac{1}{2}$ lbs. U705.....\$9.75

(This stove avail. with roarer or silent burner. Roarer performs better in wind. Specify which burner.....both same price.)



FUEL CONTAINERS. Tin alloy, leakproof, non-corrosive, flat type containers. Small brass pouring spout and brass filler cap. Built in filtering mesh screen. Made in West Germany. Three sizes:
Large 1 qt.; $4'' \times 1\frac{3}{4}'' \times 9\frac{1}{2}''$ Wt. 6 $\frac{1}{2}$ oz. U622.....\$1.95
Regular (1 $\frac{1}{2}$ pint; $4'' \times 1\frac{3}{4}'' \times 7''$) Wt. 5 $\frac{1}{2}$ oz. U621.....\$1.75
Small (1 pint; $4'' \times 1\frac{3}{4}'' \times 4\frac{1}{2}''$) Wt. 4 $\frac{1}{2}$ oz. U620.....\$1.65

ALUMINUM BOTTLES. Leakproof and non-corrosive. Anodized in Red, Blue, and Gold for fruit juices and other beverages: Imparts no taste. State color choice.
Pint Size: U610 Wt. 3 oz.....\$2.25
Quart Size: U612 Wt. 5 oz.....\$2.50
Non-Anodized. Less expensive. Good fuel bottle.
Pint Size: U600 Wt. 3 oz.....\$1.75
Quart Size: U602 Wt. 5 oz.....\$1.95

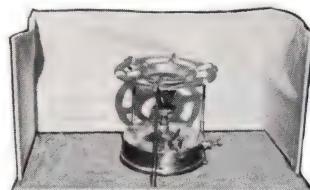


PLASTIC BOTTLE WITH ATTACHED CAP. Made in Austria of non-breakable, soft polyethylene. The vertical corrugations on the front and back of this eight sided bottle give strength. The non-losable plug type stopper and the screw cap effectively seal bottle against leakage. Three sizes:
1 Qt. Wt. 3 $\frac{1}{2}$ oz. U632.....\$1.25
1 $\frac{1}{2}$ Pt. Wt. 3 oz. U631.....\$0.95
1 Pt. Wt. 2 $\frac{1}{2}$ oz. U630.....\$0.75

POLYETHYLENE BOTTLES. Unbreakable. Lightweight. These bottles are excellent for carrying liquids, including water, cooking oils, syrups, etc.
Quart: Wt. 4 $\frac{1}{2}$ oz. U642.....\$0.75
Pint: Wt. 3 oz. U641.....\$0.65
Half Pint: Wt. 1 $\frac{1}{2}$ oz. U640.....\$0.50



BLEUET BUTANE STOVE This compact French stove is a delight to own. Uses an easily insertable, disposable cartridge for fuel supply. Regulating valve for heat control. One cartridge will burn for 2½ to 3 hours at maximum flame. Frustrations of priming, pumping and filling are gone . . . just crack the valve and light. Lightweight too . . . 1 lb. 9 oz. with full cartridge. 8½" x 3½", stove w/one cartridge. U710.....\$8.00
Windscreen. 2oz.....75
EXTRA BUTANE CARTRIDGES FOR ABOVE STOVE AND LANTERN.
11 oz. ea. U711.....\$.60
Box of 6. U712.....\$3.50
Butane cartridges may not be shipped by Air Mail.



STOVE WINDSCREEN. Made of fireproof cloth, sewn to alloy ribs which push into the ground. Increases cooking efficiency, especially in windy sites. 16" wide, 9" deep. Wt. 3 oz. U750....\$2.25



ALCOHOL STOVE. An excellent little stove for making a cup of tea or soup on the trail. 3¾" dia. x 2" high. 3 oz. U715....\$1.75

HEAT TAB STOVE WITH HEAT TABS: Emergency heat for quick warm-ups. Complete with box of fuel. Wt. 6 oz. U716....\$1.75

HEATABS: Simple to use, just light with match. Box with 2 hrs. heat. Wt. 2½ oz. U717.....60¢
Box with 4 hrs. heat. Wt. 6½ oz. Price. U718.....95¢



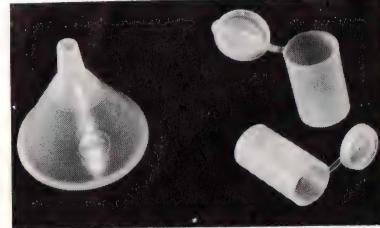
SIGG COOKER. Smallest and lightest gasoline cooking set available. Consists of two aluminum pots, lid which doubles as a pan, pot holder, two windshields which provide high cooking efficiency. The Borde stove is extremely lightweight and easy to use. The whole unit nests into a compact size and is kept secure with a strap. Pot size is 7" diameter x 3½" high. 1¼ pint capacity. Weight complete: 1 lb. 8 oz. U723.....\$15.00
Cooker without Borde stove.. U722.....\$8.00
Borde stove alone. Wt. 9 oz. U724.....\$7.50

SIGG TOURIST. A light camp cook set, larger than Sigg Cooker. Designed for use with SVEA stove. Set consists of one casserole of 2½ pt. capacity; one casserole of 3½ pt. capacity; one lid pan; one upper and lower wind guard; one pot holder; one strap and one SVEA gasoline stove. Nested size 8¼" dia. x 4¾" high. Wt. 2½ lbs. U733.....\$15.50
Sigg Tourist without SVEA stove. U732.....\$7.75



PLASTIC FLASK. Unbreakable. Translucent frosted finish. Shaped to fit hip. Two screw caps; inner one of plastic; outer one of metal which holds 1 fl. oz. Capacity of flask 10 fl. oz. Wt. 2½ oz. U642.....\$1.00

PLASTIC PROFILE BOTTLE. Non-breakable, soft polyethylene. Corrugated for side wall strength. 3" dia. x 10" high. 1 liter capacity (approx. 1 qt.). Wt. 2¼ oz. U639.....50¢



POLY VIALS. Small polyethylene vials having hinged lids which can be snapped shut. Most convenient way to carry bobby pins, pills, safety pins, etc. Three sizes. 1¼" dia. x 2" ¼ oz. U892.....15¢ ea.
1½" dia. x 2" ¼ oz. U891.....2 for 25¢



PLASTIC JERRY CANS. A really tough, lightweight container that is crushproof, unsinkable and non-corrosive. Made of Scepterene, which will handle either water, gasoline, oils, or any problem liquid. Comes with spout, air vent, and large handle. Red, Yellow, White . . . (colors as available).

1 Gal. Wgt. 17 oz.U691.....\$1.95
2½ Gal. Wgt. 1 lb., 6 oz. U692.....2.95
5 Gal. Wgt. 3 lbs., 3 oz.U695.....4.95



COLLAPSIBLE PLASTIC BOTTLE. When filled with liquid will stand upright. When empty may be collapsed. Leakproof plastic screw cap. Capacity 1½ gal. U655.....\$1.25

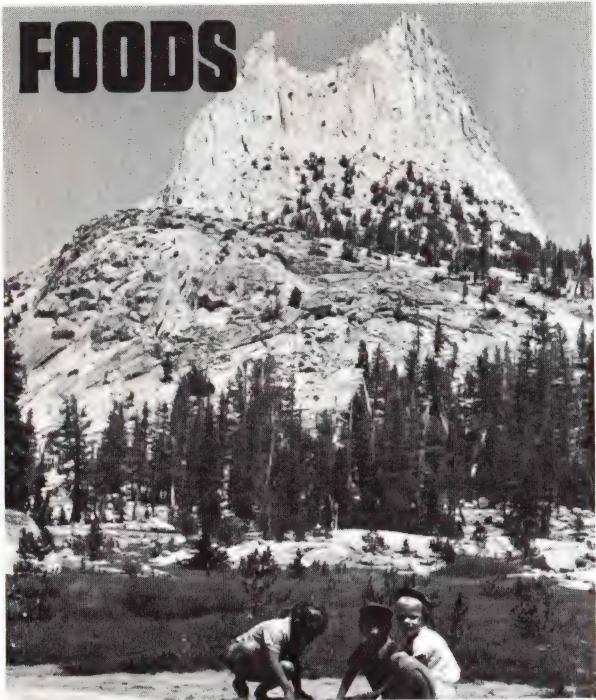


PLASTIC WATER BUCKET: Made of heavy, gauge Vinylite plastic. Has handle. Frost color. Size is 7½" dia. x 8" height. Wt. 3½ oz. U661.....\$1.00

PLASTIC WASH BASIN: Made of heavy gauge Vinylite plastic. Size 10" dia. x 4½" high. Wt. 4½ oz. Price. U660.....\$1.00

PLASTIC FUNNEL: Lightweight funnel of polyethylene. Fitted with screen mesh to filter gas for camp equipment. Wt. ¼ oz. Price . U911.....35¢

FOODS



TRAILWISE PAC-LITE dehydrated foods are the finest quality obtainable. Packages are Polycel bags which are superior to both cellophane and polyethylene in durability, air tightness and moisture resistance. This means better tasting food which will stay fresh longer. The size of each package has been determined with the needs of the average backpacking party in mind. TRAILWISE foods are indicated by the symbol (T) below.

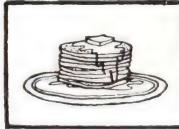
SEIDEL TRAIL PACKETS are very good quality foods sealed in heavy gauge polyethylene. Cooking directions appear on each package. Only water is required for preparation. Each package serves four persons. Trail Packets are indicated below by the symbol (S).

ARMOUR STAR LITE FOODS. The first extensive selection of Freeze-Dried foods. In Trailwise staff tests these foods have been found to have greater flavor and texture retention than any type of dehydrated food previously tested. Weight has been reduced to an absolute minimum—packing is lightweight, watertight and airtight foil. Foil packets are conveniently boxed for storage and protection. 98% of moisture removed by the Freeze-Drying process.

WILSON'S CERTIFIED FREEZE-DRY MEATS AND CAMP SITE MEALS. Freeze Dry foods have greater flavor and texture retention than any other type of dehydrated foods. The freeze dry process allows maximum life and freshness, minimum preparation, and low weight. (98% of moisture removed.)



BREAKFAST



Corn Bread Mix (S).....	Net wt. 16 oz. F110	58¢
Ginger Bread Mix (S).....	Net wt. 8 oz. F115	47¢
Hot Biscuit Mix (S).....	Net wt. 14 oz. F114	51¢
Jiffy Hot Cereal (S).....	Net wt. 6½ oz. F111	37¢
Pancake Syrup Mix (S).....	Net wt. 10½ oz. F112	47¢
Buttermilk Pancake Mix (S).....	Net wt. 13 oz. F113	51¢

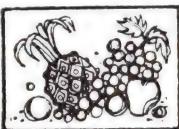
BUTTER. Creamed. No refrigeration. 1 lb. tin. F701 \$1.47

SOURDOUGH STARTER. Make your own sourdough. Keep a small amount from each batch for use in starting the next batch. Makes delicious pancakes. 1½ oz. packet with directions. F602 \$1.00

SOURDOUGH JACK'S COOKERY BOOK. A thoroughly delightful and unusual cookbook that tells the history of sourdough cookery as well as providing tasty and unique recipes. Recipes for breads, cakes, cookies, dressings, muffins, pancakes, waffles, quickbreads, stews, soups, drinks. Sourdough . . . the bread that won the West! Cookbook with pkg. of starter. \$2.00

SWISS JAM. Find quality jams in handy 7 oz. aluminum squeeze tubes. Flavors: Strawberry, Apricot, Raspberry, Black Cherry, Lingonberry. Price per tube. F603 89¢

FRUITS



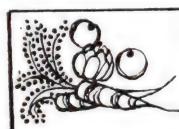
TRAILWISE FRUITS retain flavor and texture indefinitely. Fruits are equally delicious if eaten directly from the package or if reconstituted for cooking or for desserts. 1-1½ oz. per serving.

Apple Sauce Nuggets.....	F001	6 oz. 62¢
Apricot Slices.....	F002	6 oz. 99¢
Date Nuggets.....	F003	6 oz. 50¢
Fruit Cocktail Mix.....	F004	6 oz. 77¢
Peach Slices.....	F005	6 oz. 77¢
Pear Slices.....	F006	6 oz. 70¢

DRIED FRUITS IN TINS. Highest quality dehydrated fruits. For your own repacking or for larger parties. Weights are net.

Apples 1½ lb. tin.....	F510	\$3.52
Apricots 2¾ lb. tin.....	F511	\$6.00
Dates 3 lb. tin.....	F512	\$2.75
Fruit Galaxy 2¾ lb. tin.....	F513	\$4.66
Peach Slices 1¼ lb. tin.....	F514	\$3.61

VEGETABLES



TRAILWISE VEGETABLES. 95% of moisture has been removed by natural drying processes. Flavor, color and texture retention is excellent. Vegetables will remain dry after package has been opened for several days.

Precooked Beans. 2½ oz. per serving. F010	8 oz. 44¢	16 oz. 65¢
Cabbage Flakes. 1 oz. per serving.....	F011	4 oz. 70¢
Carrot Dices. 1 oz. per serving.....	F012	6 oz. 60¢

Onion Flakes. For general cooking, flavoring	F014	4 oz. 53¢
Spinach Flakes. ½ oz. per serving.....	F016	2 oz. 45¢
Tomato Flakes. 1½ oz. per serving	F017	6 oz. \$1.20
Dry Potato Slices (S) For hash browns.....	F118	5 oz. 70¢
Peas and Carrots (S).....	F119	2½ oz. 90¢
Carrot Slices (S).....	F120	2 oz. 46¢
Cream Style Corn (S).....	F121	3½ oz. 1.02
Garden Peas (S).....	F122	3¼ oz. 94¢

EGG DISHES



INSTANT EGG OMELET MIX. Made by Borden. Freeze-dried omelet preparation in four flavors: Ham Omelet, Cheese Omelet, Western Omelet and Mushroom Omelet. Just add water and cook. Each package will serve two to three. Wt. 1 5/6 oz. F601 50¢

Powdered Whole Eggs (T). 8 oz. aluminum foil package; contents equivalent to 18 eggs. F020 \$1.44

Western Omelet (S) F123. 5 oz. 1.30

VEGALENE. A low-fat blend of vegetable oils. Prevents food from sticking to utensils. A boon to campers and backpackers for it is in liquid form, keeps cook-kits clean, requires no refrigeration. In handy squeeze bottle of tough plastic. 4 oz. F703 \$1.00



BEVERAGES

NESTLE INSTANT COCOA. Contains milk, sugar. Just add hot water. Each package makes one large cup. Per dozen. F534.65¢

WHOLE MILK. Powdered. Grade A with high butterfat content. 1 lb. tin makes 16 cups. F705. 99¢ 4 lb. tin makes 20 quarts. F706 \$3.58

KRAFT WHOLE MILK SUPER INSTANT CRYSTALS. Made from fresh, pasteurized, homogenized whole milk with added lecithin and vitamin D. Instant blend by just adding hot water to the crystals. 1 lb. of crystals will make 1 gal. of milk. Two sizes: 1 lb. pkg. F707 \$1.20 5 lb. pkg. F708 \$5.75

INSTANT ORANGE JUICE CRYSTALS (K). Prepared from the whole juices of California oranges. Reconstitute by adding water. Contains Vitamin C. No refrigeration necessary.

Regular 4 oz. packet (makes 1 quart). F408. \$.66 Large 8 oz. packet (makes 2 quarts). F409. 1.20

FRUIT JUICE CRYSTALS. Prepared from the whole juices of citrus fruit. Outstanding fresh fruit flavor. Reconstitute by adding water only. No refrigeration necessary.

Grapefruit Juice. Makes 1 gallon. 1 lb. can. F518 \$2.25 Orange Juice. Makes 1 gallon. 1 lb. can. F519 \$3.25

SWISS PEPPERMINT TEA. 2 instant tea cubes per package. Delightful refreshment for cool evenings. Two packages.....F609.25¢

LEMON POWDER. (T). Use 1/4 oz. per serving. 65¢
F007. 6 oz.....

WYLER'S FRUIT-ADE MIXES. Packaged in aluminum foil. Complete with sugar. Add 1 quart water to package. Flavors: Strawberry, Cherry, Grape, Orange, Lemonade, Pineapple-Grapefruit. 2 for 25¢
F512.....

RECIPE FOR LOGAN BREAD: A bread for the backpacker. Light, tasty, keeps for months.

To one quart water, add:

4 lb. whole wheat flour

1 1/4 cups honey

1 1/4 cups blackstrap molasses

1 lb. raw sugar (or brown)

2 cups powdered milk

1 tsp. baking powder

1 tsp. salt

1 1/2 cups melted shortening

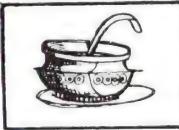
350° F. for 1 hour—cut into squares while still warm and soft, then put

back in, with door of oven ajar, overnight at very low temp. When thoroughly dry will keep for months. (Bake in low, flat pan.)

1. This recipe tastes strongly of molasses. If you prefer a more neutral taste, substitute more honey for molasses.

2. Soy flour is a good substitute in part for whole wheat flour.

3. For experimental purposes, cut recipe in quarters. Full recipe makes about 40-50 pieces 2" x 3" x 1".



SOUPS

MAGGI SOUPS. Delicious imported Swiss soups. Excellent for either trail or home use. Packaged in aluminum foil envelopes. Each envelope will serve 4-6. Only water needed for preparation. 2 1/2 oz.

MushroomF501.36¢

OnionF502.36¢

Chicken NoodleF503.36¢

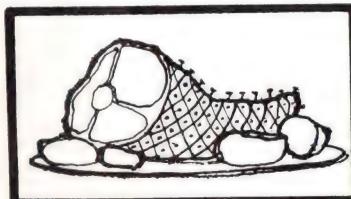
Egg Macaroni ShellsF504.36¢

Spring VegetableF505.36¢

Ham with PeaF506.36¢

Cream of AsparagusF507.36¢

OxtailF508.36¢



MEATS

BEEF JERKY. Concentrated beef. Each pound is equivalent to approximately 3 1/2 lbs. of fresh beef. F542/2 2 oz. package \$.85
F542/4 4 oz. package 1.50
F542/8 8 oz. package 2.95
F542/16 16 oz. package 5.75

MEAT BAR. 3 oz. bar, 513 calories; each bar equals one pound of raw meat. Fully cooked. Fats 45%, protein 47 1/2%, moisture 6%. Packed in aluminum foil. 10 or more ea.1.35

SWIFT'S PRE-FRIED BACON. 18 to 20 slices of fresh bacon with 2% of the lard cooked off. No refrigeration required. Equal to 1 lb. of uncooked bacon. Net wt. 6 1/4 oz. F545 \$1.50

BACON BAR. 3 oz. bar equals one pound cooked bacon. Packed in aluminum foil. EachF302.\$1.18
On purchase of 10 or more bars, each bar 1.10

WILSON'S FREEZE-DRIED MEAT. Meat is frozen, then dehydrated in vacuum. When reconstituted, meat possesses nearly perfect flavor and texture. Reconstituted weight is about 3 times dry weight.

Beef Meat Balls. Seasoned. 2 oz. net weight. Each tin contains 25 meatballs. 4 oz. tins each. F303.\$1.12

In purchase of 10 or more tins, each tin\$1.07

Beef Patties. 1.6 oz. net weight. Each tin contains 2 patties. Each 4 oz. tin. F304.\$1.07

In purchase of 10 or more tins, each tin\$1.02

Pork Patties. 1.4 oz. net weight. Each tin contains 2 patties. Each 4 oz. tin. F305.\$1.01

In purchase of 10 or more tins, each tin\$.96

Ham Cubes. 1 oz. net wt. Each 3 oz. tin. F306 \$.64

In purchase of 10 or more tins, each tin\$.60

SWISS FONDUE. Heat and serve. Contains Swiss and Gruyere cheese, wine and kirsch. Serves 2 or 3. 14 oz. can.....F543.\$2.25

GRAVY QUIK. One small box contains two packets. Each packet serves up to 6 persons. Just add water for rich gravy in just two minutes. 1 3/4 oz. box.....F544.24¢

MAIN DISHES



ARMOUR'S FREEZE-DRIED FOODS. See description on facing page.

Beefsteaks. Two delicious, tender steaks. 2 oz. net. F202....\$2.35

Vegetable Beef Dinner. A tasty stew. Serves 4. 6 oz. net.

F204\$2.15

Chicken Stew. Serves 4. 6 1/2 oz. net. F205.....\$2.15

Ranch Style Breakfast. Scrambled eggs, sausage patties, and hash brown potatoes. Serves 2. 6 1/2 oz. net. F207.....\$2.55

Pork Chop Dinner. Four boneless chops, applesauce, and sliced potatoes. Serves 2. 6 1/2 oz. net. F208.....\$2.50

Swiss Steak Dinner. Tender Swiss steak, mashed potatoes, gravy, and green peas. Serves 2. 6 3/4 oz. net. F209.....\$2.70

Chili Beans. Beef, beans, and sauce. Serves 4. 8 1/2 oz. net.

F210\$1.65

Beef Burger Mix. (Armour's) Serves 2. 2 1/2 oz. net. F211.....\$1.45

Scrambled Eggs w/Ham. (Armour's) Serves 2. 2 oz. net.

F212\$1.40

Gravy and Sliced Beef. Serves 2. 2 1/2 oz. net. F206.....2.15

WILSON'S FREEZE-DRY FOODS. See description on facing page.

Pork Chops. 2 oz. F315 \$1.40

Beef Steaks. Two tender, juicy steaks. 2 oz. net. F313.\$2.08

10 or moreea. \$2.00

Hamburgers. Three all-beef patties. 3 1/4 oz. net. F314. \$1.65

10 or moreea. \$1.55

SEIDEL TRAIL PACKETS. Each package contains 4 servings. See general description of Trail Packets on page 42.

Beef HashF101. Net wt. 8 oz.....\$1.85

Boston Baked Beans in Sauce.....F102. Net wt. 12 oz..... .73

Chicken a la King.....F103. Net wt. 7 3/4 oz..... 1.52

Chili Beans in Sauce.....F104. Net wt. 11 oz..... .73

Macaroni Dinner with Cheese.....F105. Net wt. 8 3/4 oz..... .67

Spaghetti with Tomato Sauce.....F106. Net wt. 7 oz..... .75

Tomato Rice Mulligan Dinner.....F107. Net wt. 8 1/2 oz..... .68

Veg-a-Rice DinnerF108. Net wt. 8 oz..... .62

Chicken Noodle Dinner (S).....Net wt. 9 1/2 oz...F124 \$1.65
Beef 'N Gravy w/Noodles(S).....Net wt. 10 oz....F125 \$1.75



FOR ENERGY

SEMI-SWEET CHOCOLATE. Ghirardelli's non-melt type. 8 oz. packageF530.46¢

MINT BAR. British import. High energy food. Refreshing mint flavored sugar. 8 oz. bar.F531.40¢

TEX-SCHMELTZ TRAUBENZUCKER. Delicious Dextrose tablets. Quick energy foodstuff which provides energy faster than other forms of sugar. 2 oz. pkg. of individually wrapped tablets. Lemon flavor contains vitamins B2 and C. Also in chocolate. Each pkg. .F532 .25

SWISS OVOSPORT. High energy food to be eaten as a bar or made into a drink. Chocolate-Malt flavor. 3 oz. pkg.F533.35¢

HONEY-NUT BAR. Swiss product. Blend of creamed nuts and honey. 4 1/2 oz. boxF536.89¢

RUM FUDGE BAR. Imported from England—developed for expeditionary use. 826 calories. Foil wrapped. 7 oz.F535. \$1.35

NU-V FOOD BAR. A flavorsome array of energy foods — fruits, grains, milk solids combined into one bar. 200 calories, 2/3 MDR of vitamins and minerals, per 1 1/2 oz. bar. 3 bars per package. F538 (package of 3 bars).....\$1.50

BIRCHER MUESLI. A delicious cereal made in Switzerland that contains Oats, Wheat, Millet and three varieties of fruits, and two kinds of nuts. Delicious hot or cold. No cooking. Wgt. 14 oz.F600. \$92



FOOD BAGS

VINYL FOOD BAGS. Sturdy. With tie tape for closure. Szie 5" x 11". Wt. 1 oz.U950.55¢

POLYCEL HEAT SEAL BAGS. Very strong, highly resistant to moisture penetration. These bags can be sealed airtight with a warm iron or low heat soldering iron. Envelope type. 9" x 7 "U951.40¢/dozen 6 1/2"x7"U952 .30¢/dozen

POLYETHYLENE BAGS. Extremely lightweight yet durable. Tear resistant, odorless. Three sizes:

	10 bags	50 bags
'2" x 4" x 12"	U962 .20	\$.85
6" x 3" x 15"	U965 .30	1.25
4" x 6" x 18"	U968 .45	1.85

PLASTIC FOOD BAGS. Strong polyethylene .003 gauge seamless bags, each with a patented clip for closing air tight. Reusable. Packaged 10 to a bag, making a total of 11 with outside bag. Three sizes:

2" x 4" x 12". Pkg. of 10 plus 1 outside bag.....	U972 \$1.75
3" x 6" x 15". Pkg. of 10 plus 1 outside bag.....	U975 \$1.95
4" x 6" x 18". Pkg. of 10 plus 1 outside bag.....	U978 \$2.50

BOOKS

SIERRA CLUB BOOKS

Award winning books that combine eloquent texts with first-rank photography. For those who cherish both wilderness and the bookmaker's art.

THIS IS THE AMERICAN EARTH, by Ansel Adams and Nancy Newhall. A moving blend of dynamic photographs with stirring text. Emphasizes our heritage of a beautiful America with an inspiring message to preserve that which we are fortunate to have. Format 13 1/2 x 10 1/2". The photography is extraordinary and is reproduced with painstaking accuracy.....\$15.00

THESE WE INHERIT by Ansel Adams. This book was added to the Sierra Club's distinguished collection of conversation books in 1962. It is an introduction to the parklands of America. Text by Ansel Adams and 42 of his magnificent black and white photographs. \$15.00

THE LAST REDWOODS: PHOTOGRAPHS AND STORY OF A VANISHING SCENIC RESOURCE by Philip Hyde and Francois Leydet. "There is a price on beauty—eternal vigilance." So Philip Hyde and the other photographers join with F. Leydet in reminding us not only of beauty, but also of what we need to be vigilant about the forces that are currently destroying the last redwoods. 10 1/4 x 13 1/2, 128 pp. 76 illus., 68 in gravure, 8 in color, all varnished; cloth.....\$17.50

WORDS OF THE EARTH, by Cedric Wright. Some of the most beautiful wilderness photography we have ever seen, is presented in this exceptional volume. The same display format and gravure as that used in "This is the American Earth" coupled with text by a man who had a rare love of the high world has resulted in a work of great merit. 96 pages, with 53 photographs.....\$15.00

ANSEL ADAMS 1: THE ELOQUENT LIGHT by Ansel Adams and Nancy Newhall. The period 1902-1938 in the biography of a great conservationist who has played a major role in the development of photography as a fine art. 88 illustrations in varnished gravure.....\$20.00

ISLAND IN TIME: THE POINT REYES PENINSULA by Harold Gilliam. This stretch of coast just north of San Francisco has a fascinating history as well as being wildly beautiful. Sir Francis Drake careened the Golden Hind here and amidst the frenetic, urban area of San Francisco this shoreline stands . . . to now . . . lovely and untouched. Photographs in color and black and white, by Philip Hyde. Cloth.....\$7.50 Paper.....\$4.95

IN WILDERNESS IS THE PRESERVATION OF THE WORLD by Eliot Porter. This book has justly become famous since its publication in late 1962. It is a masterpiece of color photography. Text from Henry David Thoreau, introduction by Joseph Wood Krutch and the amazing photography of Eliot Porter. 10 1/2 x 14 \$25.00

EVEREST—THE WEST RIDGE. By Tom Hornbein. Twelfth in the Sierra Club Exhibit Format Series; a moving account of the 1963 American Everest Party's first ascent of the West Ridge; from its inception, through to the rain forest of Nepal to its triumphant climax on the starkly beautiful summit ridge. 90 color plates...\$25.00



Time and the River Flowing
GRAND CANYON

by FRANCOIS LEYDET

TIME AND THE RIVER FLOWING: GRAND CANYON, by Francois Leydet. The Bureau of Reclamation has proposed the building of dams within the Grand Canyon itself. This would not only destroy the living river, but also unique life forms that depend upon the river. The heart of the canyon would be stopped. The author of "The Last Redwoods" has turned his poetic and reportive talents toward the forces that would needlessly destroy that which cannot be replaced. 160 pp. 80 color plates.....\$25.00

GENTLE WILDERNESS: THE SIERRA NEVADA. Text by John Muir and photographs by Richard Kauffman. Whether you have never been in the "Sierra" or have grown to love it as nothing else, you will treasure this book. "A cool Sierra wind blows through Mr. Kauffman's color photographs, a gentle wind. The light is that of the gentle hours, warm light on a friendly, inviting land." (D. Brower) 168 pp. 72 color plates.....\$25.00

NOT MAN APART. Text by Robinson Jeffers; photographs by Edward Weston, and Ansel Adams. This is the newest of the Sierra Club's exhibition format books. Combining the work of a poet and photographers who have been inspired by the Carmel-Big Sur area of the California coast, this book is an eloquent statement of the interdependence of Man and his natural environment. 96 plates (32 in color) 168 pp.....\$25.00

JOHN MUIR AND THE SIERRA CLUB: THE BATTLE FOR YOSEMITE, by Holway Jones. A finely paced story of how a major conservation group worked in its early days. Tells how John Muir's organization fought valiantly to win federal protection for Yosemite Valley and won; fought again to save Hetch Hetchy but lost. 100 drawings and photographs. 224 pp.....\$10.00

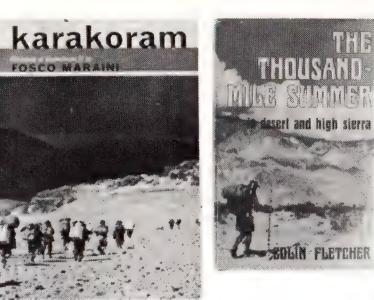
WILD CASCADES. The Glacier Peak—Lake Chelan Parkland. A dramatic appraisal of incredible mountains, of the proposed North Cascades National Park, and of the many threats to it adverse to the public interest. This area of the Northwest has been called the "Switzerland of America." Text by Weldon Heald and others. 128 pp. 80 photos....\$17.50

THE PLACE NO ONE KNEW: GLEN CANYON ON THE COLORADO by Eliot Porter. "A Glen Canyon happens only once; there is no scenic climax anywhere that can quite approach it. In its last days, Eliot Porter followed the winding river and delved into its secret places, recording with perceptive camera the beauty he found there. The exquisite color reproductions blend with a timeless text in what has been recognized as one of the most beautiful of books. 72 color plates, 10 1/4 x 13 1/2, 168 pp., cloth.....\$25.00



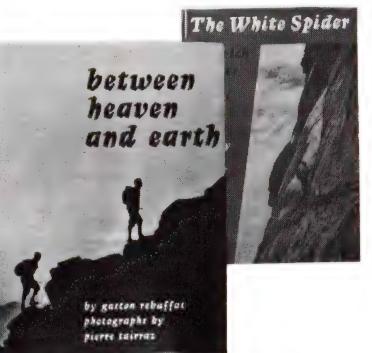
LIVING OFF THE COUNTRY, by Bradford Angier. A simple and entertaining explanation of the principles of living off nature when emergency arises. Four parts—Sustenance, Warmth, Orientation and Safety—divide the woods techniques for easy reference. Included are discussions of edible wilderness foods, making fires and shelter, camping and signaling, emergency aid, backwoods medicine. Illustrated.....\$5.00

ON YOUR OWN IN THE WILDERNESS, by Col. Townsend Whelan and Bradford Angier. A companion book to "Living off the Country," "On Your Own" is an excellent guide for equipment selection and use in a number of outdoor situations. Topics include outdoor outfits, hiking packs, tents, stoves, tools, footware, maps and mapping, basic outdoor cookery and a comprehensive discussion of wilderness techniques. Illustrated with photos and drawings. 1958. \$5.00



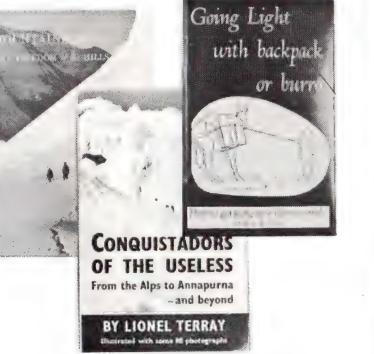
KARAKORAM, by Fosco Maraini. An English translation of the Italian "Ascent of Gasherbrum IV". The account of the Italian Alpine Club's successful 1958 expedition to Mt. Gasherbrum IV (K-3)—and one of the most vivid narratives of an expedition and its encounters to appear in several years. For the more than 100 superlative photographs (55 in color) alone the book is a "must". 1961.....\$10.00

THE THOUSAND MILE SUMMER. By Colin Fletcher. The author's own story of his walk from the Mexican border to Oregon via California's backbone, across Death Valley and along the Sierra Nevada crest. It has taken a few years for Colin to get this book into print (always out walking . . . did the first solo full-traverse of the Grand Canyon in '63) but we think you will find the wait was worth it. 207 pp. 39 photographs. 1964.....\$4.95



ON SNOW AND ROCK by Rebuffat. An outstanding book of mountaineering technique by one of the foremost authorities: the only book which we have seen illustrated with step-by-step photos of advanced and artificial technique. 285 excellent photos, with several in full color. Text in English. An exceptional value for the photography alone.....\$10.00

THE WHITE SPIDER, by Heinrich Harrer. First published in 1959, this book has already been recognized as one of the classics of mountaineering literature. It traces the history of the North Face of the Eiger up to the 13th successful climb made in 1958. An almost vertical pyramid of rock and ice 6000 feet high, the North Face remains the most dangerous face in the Alps and a permanent challenge to the best climbers. Harrer's history is reliable, informative, extremely entertaining. 1965 edition.....\$6.95



CONQUISTADORS OF THE USELESS, by Lionel Terray. The autobiography of the famous French climber, who describes his ascents in the Alps, Himalaya and South America. Over 80 excellent photographs. 351 pp. Pub. 1963: \$5.95

MOUNTAINEERING — THE FREEDOM OF THE HILLS, by the Seattle Mountaineers. The most complete text on mountaineering technique and mountain environment now available. A partial selection of topics includes the following: equipment, camping and sleeping, alpine cuisine, wilderness travel, navigation, route finding on rock, balance, roped climbing, belaying, first aid, mountain weather. 464 pp., illustrated. \$7.50

BETWEEN HEAVEN AND EARTH. By Gaston Rebuffat. A fitting sequel to the now-classic **Snow and Rock**. 112 photographs by Pierre Tairraz illustrate the Grand Travers of Mt. Blanc and all its satellites, the South Face of the Midi, and the Bonatti routes on the Drus. Rebuffat's philosophic text will delight all mountaineers. In English.....\$12.50

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DEATH VALLEY, by Ansel Adams, Nancy Newhall and Ruth Kirk. A discussion of photography in Death Valley, advice on desert travel, Death Valley flora and fauna. Thirty-three plates, ten in color, by Ansel Adams. Paper.....\$3.50

DOLOMITEN by Robert Lobl. Descriptions in German, French and English of the Dolomites. 80 photographs.\$4.25

KARWENDEL by Robert Lobl. A companion volume to the above book. Little known climbing are of the Tirol. 88 pp. 64 photos.....\$3.50

EXPLORING GLACIERS—WITH A CAMERA, by A. E. Harrison. Studies of glacial movement, etc., with sixty photos, including comparative groups showing glaciers over several decades. Techniques for advanced study. 1960

EXPLORING THE NATIONAL PARKS OF CANADA, by Butcher. Paperbound.....\$1.75

THE WORLD OF ICE, by James Dyson. The enchantment of the world of ice is shown in over 60 plates of glaciers, icebergs and the ice-caps of the world. 275 pp. 1962.....\$6.95

PATHWAY IN THE SKY, by Hal Roth. A writer-photographer, who has hiked the Muir Trail 5 times, has written this excellent history of the trail—its natural features, geology, wildlife; and about the people who made it come to be. 170 photos. 1965.....\$8.50

SEQUOIA NATIONAL PARK, by Francois E. Matthes. A geological album of photographs, showing glacial evidences, avalanche sculpture, features due to volcanic action, etc.....\$1.95

THE PHOTOGRAPHY OF SCENERY, by D. Milner. Incorporates much of Milner's "Mountain Photography" now out of print. 222 pp. 45 photos. London 1962

YOSEMITE VALLEY, by Ansel Adams. A very well prepared photographic collection which contains some of the finest work of the master photographer. Included is a section giving advice on Yosemite photography. 45 plates.....\$3.95

COMPLETE BOOK OF NATURE PHOTOGRAPHY by Russ Kinne. Russ Kinne is both a working naturalist and a skilled photographer, and this book provides information on equipment and technique that will interest and instruct the advanced as well as beginning nature photographer. Photography of rocks, minerals, underwater life, insects, birds, mammals etc. Many photographs, 191 pp.....\$7.50

PHOTOGRAPHING NATURE, by David Linton. Information for beginner and expert. Techniques of photographing plants, animals, landscapes, and advice on field photography, cold weather photography, underwater, etc. 262 pp. 26 plates. 24 illustrations. Paper.....\$1.95

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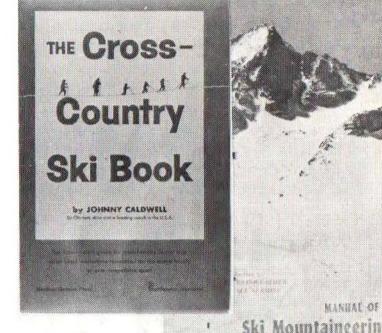
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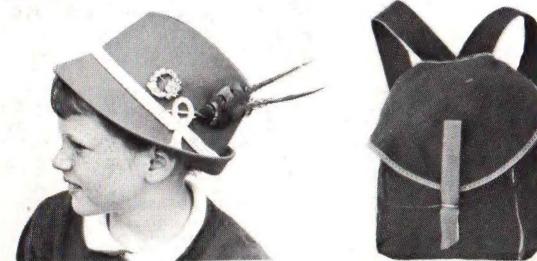
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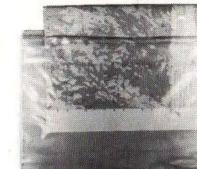
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We always take pleasure in calling your attention to **SUMMIT** magazine, a monthly publication devoted to mountains and wild places. Their address: 44 Mill Creek Rd., Big Bear Lake, California.

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May 1965.

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